

canon

EOS System



SPRING/SUMMER 2009

usa.canon.com/eos

Inspired. By Canon.

A pioneering digital photographic system, the EOS System leads the way with powerful innovations for flexible, superior performance no matter the photographer. With experience gleaned in over 70 years making cameras, Canon designs and produces sensors and processors that work in concert with proven SLR and lens designs. This kind of technological synergy not only creates a comprehensive photographic solution from vision to print, it also helps make better photographs, faster. With technologies developed to make powerful photography simple, plus a network of support online with Canon's Digital Learning Center, it's a perfect time to pick up a Canon SLR—to inspire yourself and others with the power of photography.



EOS SLR CAMERAS

Rugged construction, photographer-friendly features, and compatibility with the entire line of EF lenses and EOS accessories make Canon EOS SLR benchmarks for performance, ease of use, and quality.

| | |
|---|----|
| • EOS SLR Technology | 4 |
| • EOS Digital SLR Cameras | 10 |
| • EOS 35mm Film SLR Camera | 18 |
| • EOS System Chart | 19 |
| • EOS SLR Comparison Chart | 20 |
| • Image Format and Capacity Chart | 23 |

EF LENSES

A unique blend of the world's most advanced optical, microelectronics, and precision manufacturing technologies, EF lenses are perfected in Canon's laboratories and proven in the field.

| | |
|-----------------------------|----|
| • EF Lens Technology | 24 |
| • EF Lens Lineup | 30 |
| • EF Lens Chart | 35 |
| • EF Lens Accessories | 36 |

SPEEDLITES

Canon Speedlites are the ideal flash light source for EOS SLR cameras. They are technologically advanced to provide perfect exposure and illumination with just about any subject.

| | |
|------------------------------------|----|
| • Speedlite Technology | 38 |
| • Wireless Flash Photography | 40 |
| • Speedlite Lineup | 41 |
| • Speedlite Accessories | 43 |

EOS SYSTEM ACCESSORIES

Canon accessories are the best way to enhance EOS system performance and get the most out of EOS SLR cameras. There are solutions for virtually any shooting situation.

| | | | |
|-------------------------------------|----|--------------------------|----|
| • Digital Accessories | 44 | • PowerShot Lineup | 52 |
| • Wireless | 46 | | |
| • Remote Control & Date Backs | 47 | | |
| • Shooting Accessories | 48 | | |
| • Power Supplies | 50 | | |
| • Peripherals | 51 | | |

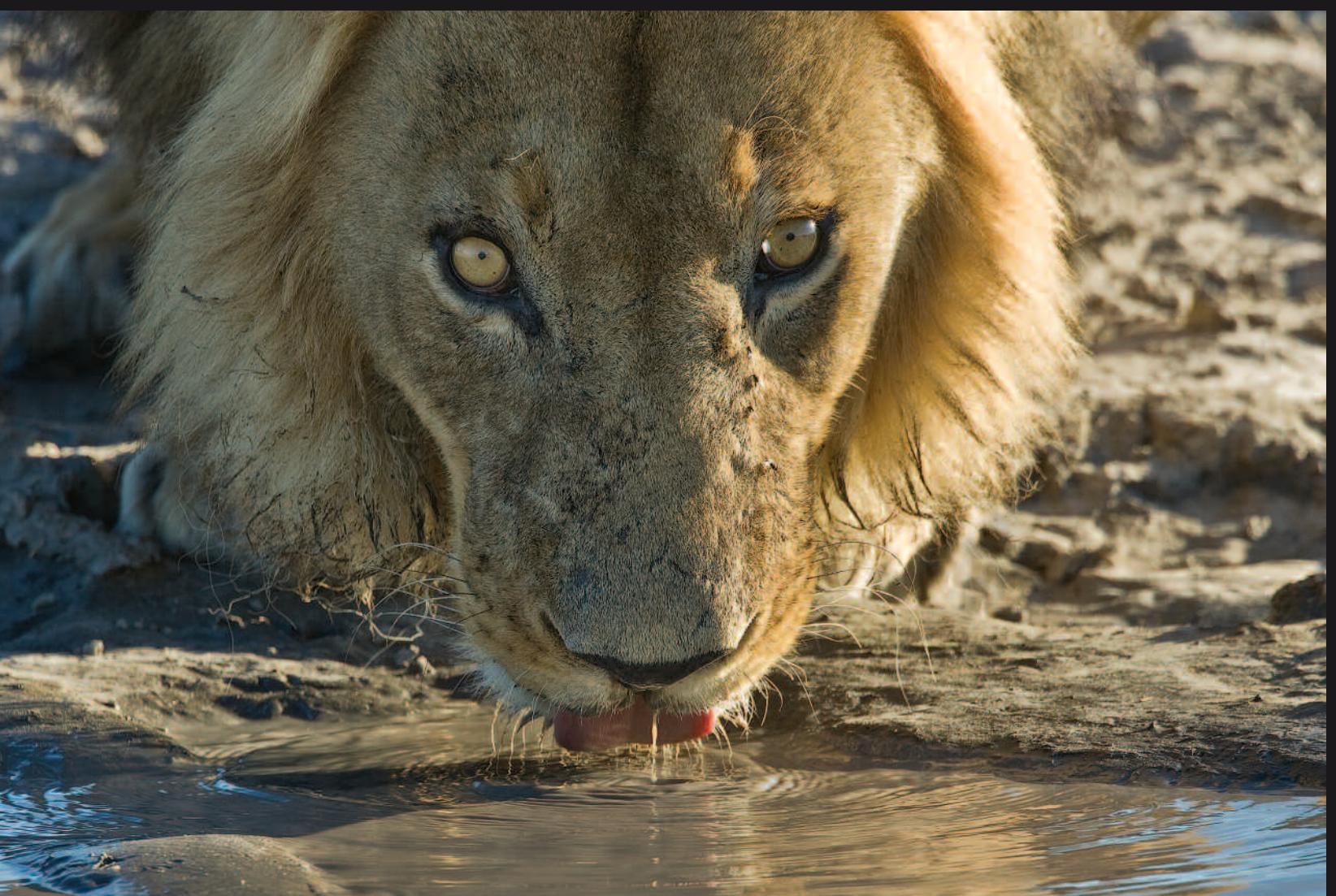
POWERSHOT

Built on some of the same technologies as EOS Digital SLR cameras, PowerShot cameras offer spectacular quality and control in a compact and easy-to-use body.

| | | | |
|------------------------------|----|--|----|
| • PowerShot Lineup | 52 | • Photo Printer Technology | 54 |
| • Photo Printer Lineup | 58 | • Printer & Scanner Comparison Chart | 60 |

PHOTO PRINTERS

From large format to 4" x 6" prints, Canon's imagePROGRAF, PIXMA and SELPHY photo printers enable photographers to produce professional-grade photoprints simply—anywhere, anytime.



©George Lepp

EOS SLR TECHNOLOGY

The history of Canon EOS SLR cameras is replete with examples of technological innovations that have set new industry standards for performance and usability. And yet, at Canon, technology is never an end in itself. Every technological advance must yield tangible benefits to the user. Does a new feature enable the camera to more quickly and faithfully respond to the photographer's will? Does a new material or process improve the camera's long-term reliability? Canon EOS advancements endure (and

are often imitated) because they enhance the photographic experience, whether you are a seasoned professional or new to SLR shooting. Put simply,

Canon EOS SLR technologies are impressive because of the quality of the images they enable you to create.



Autofocus Technology

An autofocus system with multiple focusing points is preferable to one with a single central point, but for a multi-point AF system to be truly useful, it must allow the user a variety of ways to select the correct focusing points for any given image.

Canon EOS SLR cameras have consistently featured leading-edge AF technologies. Today, the top EOS SLR cameras use an extraordinary 45-point high-density Area AF system that provides not only the industry's largest AF coverage area, but also the greatest range of control over focusing point selection. The focusing point can be selected automatically by the camera (based on high-speed microcomputer analysis of image content) or manually by the user. With Canon's flagship EOS-1Ds Mark III, users can select from 19 high precision, cross-type AF points which are complemented



AF Sensor



45-point Area AF — Canon's unique 45-point High-Density Area AF not only delivers much greater freedom of composition but also provides improved subject tracking.

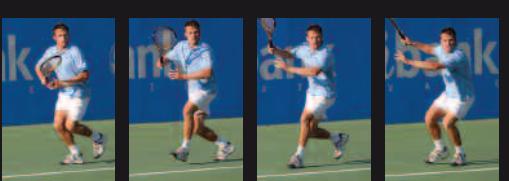
by 26 contrast light-analyzing assist points for pin sharp accuracy, instantaneously. Other models offer an eye-controlled focus point selection. Some EOS SLR cameras additionally provide the AI Focus AF mode, which automatically switches between One Shot and AI-Servo AF modes based on subject movement—ideal for shooting stop-and-go subjects. No matter which camera, or which mode chosen, Canon's EOS autofocus is fast, reliable, and versatile.

High-Speed Response

The high-speed microcomputers in EOS SLR cameras use advanced algorithms that ensure the fastest, most accurate AF performance under the widest variety of conditions. The One-Shot AF mode is ideal for more static subjects. The camera rapidly selects the optimum focusing point, and the subject is instantly brought into focus even if it is off-center. The AI Servo AF mode is excellent for moving subjects. Aided by a highly "intelligent" predictive focusing algorithm, it precisely tracks subject movement across the wide AF coverage area, automatically shifting the active focusing point as required, even at shooting speeds of up to 10 fps. Even with erratic or rapid subject movement, the photographer can shoot continuously, concentrating solely on image composition.

High-Speed Shooting

EOS Digital SLR cameras have always been associated with speedy operation. Canon's EOS-1D



10 fps — This highly responsive AF technology contributes to the rapid continuous shooting capability of EOS SLR cameras—a maximum of 10 fps (frames per second) with the EOS-1D Mark III & EOS-1v equipped with Power Drive Booster.

Mark III is offering 10 frames-per-second continuous shooting, up to 30 RAW files or 110 full-resolution JPEGs. Other aspects of the camera's responsiveness have been improved as well: the 1D Mark III has a minimum lag time of 40msec, an 80msec

viewfinder blackout time (at speeds of 1/60th and above); shutter speeds up to 1/8000 sec., and a flash sync as fast as 1/300 sec. when used with EOS Speedlites. Combined with Canon's superlative high-speed focusing options, the 1D Mark III is the fastest EOS Digital SLR among all EOS Digital SLR cameras.

Unparalleled Exposure Control

Canon EOS SLR cameras incorporate uniquely advanced exposure control systems, offering the photographer exceptionally precise AE (auto exposure) with the widest range of metering options. You can choose full-frame Evaluative Metering, where the EOS SLR camera's proven 21-zone, 35-zone or 63-zone sensor is used in conjunction with specific focusing point data. The onboard microcomputer compares input from all zones and calculates optimum exposure using a sophisticated program. While Evaluative Metering assures excellent results in even the most challenging lighting situations, advanced photographers can choose from among several additional metering options. Center-weighted metering is available for those who prefer a more traditional pattern. Partial metering limits readings to sensor zones in the center of the image area, giving the photographer more area-specific control. Spot readings can be taken at the center of the frame area or linked to an AF point. You can even take up to eight separate spot meter readings with high-end EOS cameras, and have the system average the light readings for



you. Flash photography with EOS Systems also benefits from Canon's extraordinary exposure control technology. E-TTL (Evaluative Through-The-Lens) and E-TTL II autofocus systems work in combination with the camera's 21-, 35- or 63-zone metering sensor to take the guesswork out of flash



63-zone Metering System — Canon's sophisticated 63-zone evaluative metering system considers not only the active focusing point but also a range of metered values from adjacent areas to determine correct exposure even in difficult lighting.

photography. The camera performs instantaneous calculations based on readings from the preflash, ambient lighting conditions, and assessment of subject location to determine the optimum flash output and exposure settings. With E-TTL II, the calculations additionally incorporate distance information from compatible EF lenses, enabling the system to better handle dark, light and highly reflective subjects. Your photographs will have the perfect balance between ambient light and flash illumination, even in complicated lighting situations and compositions.

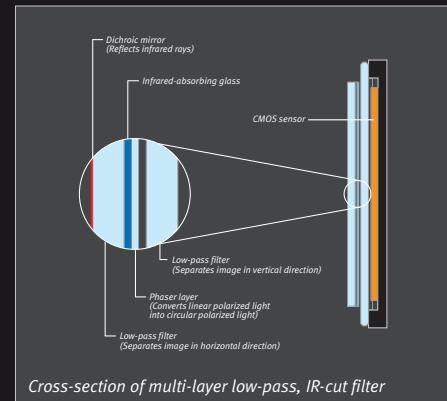
Flexible Shooting Modes

Most EOS models with a Mode Dial let photographers select from a variety of preprogrammed shooting modes, making it easy for even novice shooters to get professional-looking results. When you want the camera to make all the decisions for you, choose one of the Image Zone shooting modes. For greater control over camera settings, including full manual operation, select from the Creative Zone.



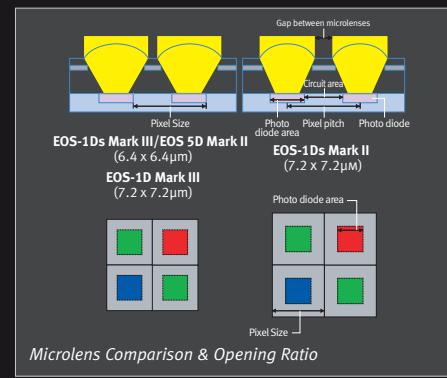
Canon CMOS Sensor

Taking advantage of its own proprietary technologies, Canon develops and produces its own CMOS sensors. Unlike CCD sensors, CMOS sensors convert and amplify signals before they are transferred to the image processor, enabling them to produce exceptionally clean image data and reduce power consumption by as much as 90%. Data transfer



Cross-section of multi-layer low-pass, IR-cut filter

speeds are increased by using multi-channel signal paths that dramatically improve the camera's responsiveness. Canon's CMOS sensors incorporate a unique on-chip noise reduction technology to deal with both fixed pattern and random noise. In addition, a multilayer low-pass filter is placed in front of the sensor to isolate false colors that the sensor may detect. Then, the **DiGIC** Image Processor processes the image to eliminate those colors while retaining full detail. CMOS sensors can also be fabricated to full-frame 35mm dimensions, an important consideration for photographers who wish to use their lenses without a conversion factor. Lauded by the best in the business, Canon's CMOS sensors deliver outstanding resolution and signal purity, making them ideal for the most critical photographic applications.



Effective Light-gathering

The EOS-1Ds Mark III and 5D Mark II sensors have 21.1 effective megapixels. Individual pixel size on

the EOS-1Ds Mark III's and 5D Mark II's sensors are 6.4 μ m, and the EOS-1D Mark III's sensor is 7.2 μ m. By optimizing the gap between the on-chip microlenses and improving the fill factor (photo-diode area divided by total pixel size) of each pixel, light-gathering efficiency has been improved.

DiGIC4 / DiGIC III Image Processor

Developed to maximize performance between capturing and recording stages of digital photography, Canon's **DiGIC 4/DiGIC III** chips use advanced signal processing technologies to dramatically enhance image quality and deliver a more intuitive, responsive camera. The **DiGIC4/DiGIC III** Image Processors work in concert with Canon's CMOS sensors to achieve even higher levels of performance. Signal processing algorithms work with the multi-channel signal from the sensor and the high-speed DDR-SDRAM buffer to deliver significantly improved camera response. Power consumption has been further reduced for even longer battery life. Color reproduction, noise reduction in low light situations plus reproduction of fine detail also have been significantly improved. In addition to it, the latest **DiGIC4** Image Processor speeds up all operations making a number of intensive features possible, such as Face Detection Live mode, HD movie recording and lighting and lens peripheral optimization.

Advanced 14-bit A/D Conversion

EOS Digital SLR cameras employ 14-bit converters to process the output of the imaging sensor. Compared to the 12-bit converters used in most digital cameras, the Canon design ensures smoother tonal transitions, more natural gradations, and superior color fidelity. RAW images are recorded at 14 bits so that processed 16-bit TIFF images contain the full range of tonal values captured by the sensor.

Extensive ISO Range*

EOS Digital SLR cameras feature an extensive ISO range for greater flexibility in different photographic situations. The EOS 5D Mark II features the widest ISO range found on EOS Digital SLR cameras at ISO 100–6400 with 1/3-stop increments plus ISO 50 (L), 12800(H1) and 25600 (H2) in extended mode. Even at higher ISO settings where one might expect to see a higher degree of noise, Canon's renowned CMOS

sensor and noise reduction system work to ensure the highest possible image quality. Accordingly, even the most critical photographers can use EOS Digital SLR cameras with confidence, no matter the light.

*Standard output sensitivity. Recommended exposure index.

Highlight Tone Priority

Loss of highlight detail is one of the greatest concerns for photographers shooting digitally in brightly lit and contrasty situations. Canon's Highlight Tone Priority function calculates the exposure to ensure that more detail is preserved in highlights. This renders a more continuous tone image without blown highlights, and helps to save time in postprocessing for highlight retrieval.



Auto Lighting Optimizer

One of Canon's newest technologies, the Auto Lighting Optimizer, automatically corrects image exposure to ensure accurate brightness and contrast. It can actually brighten areas of the composition while maintaining highlight details and accurate exposure in others, or darken areas of composition while maintaining brightness and shadow details in others. This remarkable feature is available as both an automatic feature in Full Auto and Creative Auto shooting modes, and can be used and fine-tuned in other modes. This feature can be applied to RAW images in-camera with 4-level settings.

Lens Peripheral Illumination Correction

Another all-new feature available in Canon's newest EOS Digital cameras is Canon's Lens Peripheral Illumination Correction feature. Taking into account the lens in use, this feature automatically brightens the light level at the four corners of the composition where light falloff may have occurred. Peripheral illumination characteristics and correction data are detected automatically on a number of Canon lenses and can be entered manually through Canon's EOS utility software. This function can be applied when shooting to JPEG images, and in post-processing with RAW images.

Experience the Full-frame Advantage.

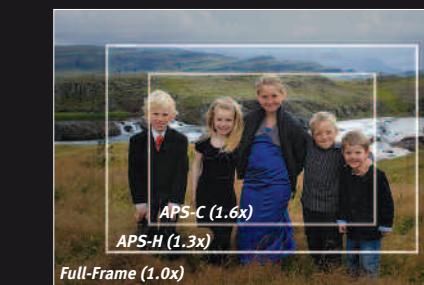


©Lewis Kemper

Full-Frame Canon CMOS Sensor



EOS-1Ds Mark III Full-Frame CMOS Sensor (actual size)



When using the same lens with different cameras, the angle-of-view varies depending on the sensor size.



The Canon-manufactured full-frame CMOS sensor delivers professional performance with digital convenience. EOS Digital SLR cameras with full-frame sensors, found on the EOS-1Ds Mark III and EOS 5D Mark II, do not require a focal length conversion factor common to other digital SLR cameras on the market. Instead, they deliver the same angle-of-view as



EOS-1Ds Mark III

EOS 5D Mark II

35mm film cameras, so the working distance to the subject, with a given lens, is the same as it would be on film. Since you can use EF lenses on either 35mm film cameras or Canon Digital SLR cameras with the same results, the switch from film to digital is truly seamless. Full-frame sensors provide greater control over depth-of-field, which helps to create beautiful background blur, perfect for portraits. The large sensor area also enables a marked reduction in noise levels at all ISO values. When combined with high resolution and smooth gradation from highlights to shadows, Canon digital SLR cameras with full-frame sensors produce images that rival those taken with professional medium-format and large-format film cameras. For maximum control and dependable performance, the choice is simple—Canon full-frame Digital SLR cameras.

Picture Style Technology

With the myriad features and settings available, even the best

photographer might occasionally have doubts as to whether all of the camera settings are optimal for the shot. Canon's ingenious Picture Style feature comes to the rescue, providing a number of user-friendly presets, including standard, neutral and landscape, giving the ability to fine-tune the images the camera produces. They enable the photographer to make optimal choices based simply on the type of shooting. These presets can be used in much the same way one would use different types of film, and more can be created using Canon's included Picture Style Editor Software. Individual camera settings—such as sharpening, contrast, color tone, and saturation can be overridden if need be.



Landscape
Great for shooting nature scenes and blue skies, this setting enhances the blues and greens typical in landscapes, and enhances saturation, contrast and sharpening.



Viewfinder

No matter the camera's specifications, a clear, bright viewfinder is the photographer's first tool for great images. Canon leads the way with their viewfinders, and has entirely revamped the viewfinder in the EOS-1Ds Mark III and EOS-1D Mark III. Offering 100% viewfinder coverage, and a larger pentaprism for higher viewfinder magnification, these two cameras offer the best view of any EOS Digital to date. All EOS Digital SLR cameras offer dioptic correction and a number of different viewfinder accessories, including up to 11 different focus screens available for most any application.



Monochrome

This setting emulates the color filters of silver halide film for bold black and white images and allows for red, green and other types of filter work.



Advanced RAW + JPEG Recording

Best described as "digital negatives", RAW images contain unaltered image data as captured by the sensor and, with post-processing, they yield the highest image quality possible from a digital SLR. While professionals and advanced amateurs will often prefer to shoot in RAW mode, JPEG images take up significantly less storage space and are often more immediately pleasing to the eye, thanks to Canon's compression and optimization protocols. With Canon's EOS Digital SLR cameras, you can capture images in a number of RAW or JPEG modes, depending on the camera's sensor, as well as record numerous combinations of RAW and JPEG images simultaneously.

Maximum Durability and Performance

Hold a Canon EOS SLR in your hands. The look and feel of quality and reliability are the result of decades of camera-making experience and these translate to real-world performance and durability second to none. The newest EOS-1D class professional SLR cameras, for example, feature bodies made of coated cast magnesium alloy, which, while light in weight, deliver outstanding strength, rigidity and electromagnetic shielding. Furthermore, the body is extensively gasketed and sealed, making the cameras exceptionally water and dust-resistant.

These are truly cameras built to take on the world's harshest shooting conditions.



EOS Integrated Cleaning System

EOS Integrated Cleaning System

Canon has designed an Integrated Cleaning System with a Self Cleaning Sensor Unit customized to each EOS Digital SLR camera that combats stray dust that can enter the camera when changing a lens or when out in the field. The front surface of the sensor's IR-cut/Low-pass filter cleans itself automatically with ultrasonic vibrations every time the camera is turned on or off. Removed dust adheres to material around the filter to ensure it stays off. With DPP, dust missed by the cleaning unit is captured by Canon's Dust Delete Data Detection and can be erased from the image file.



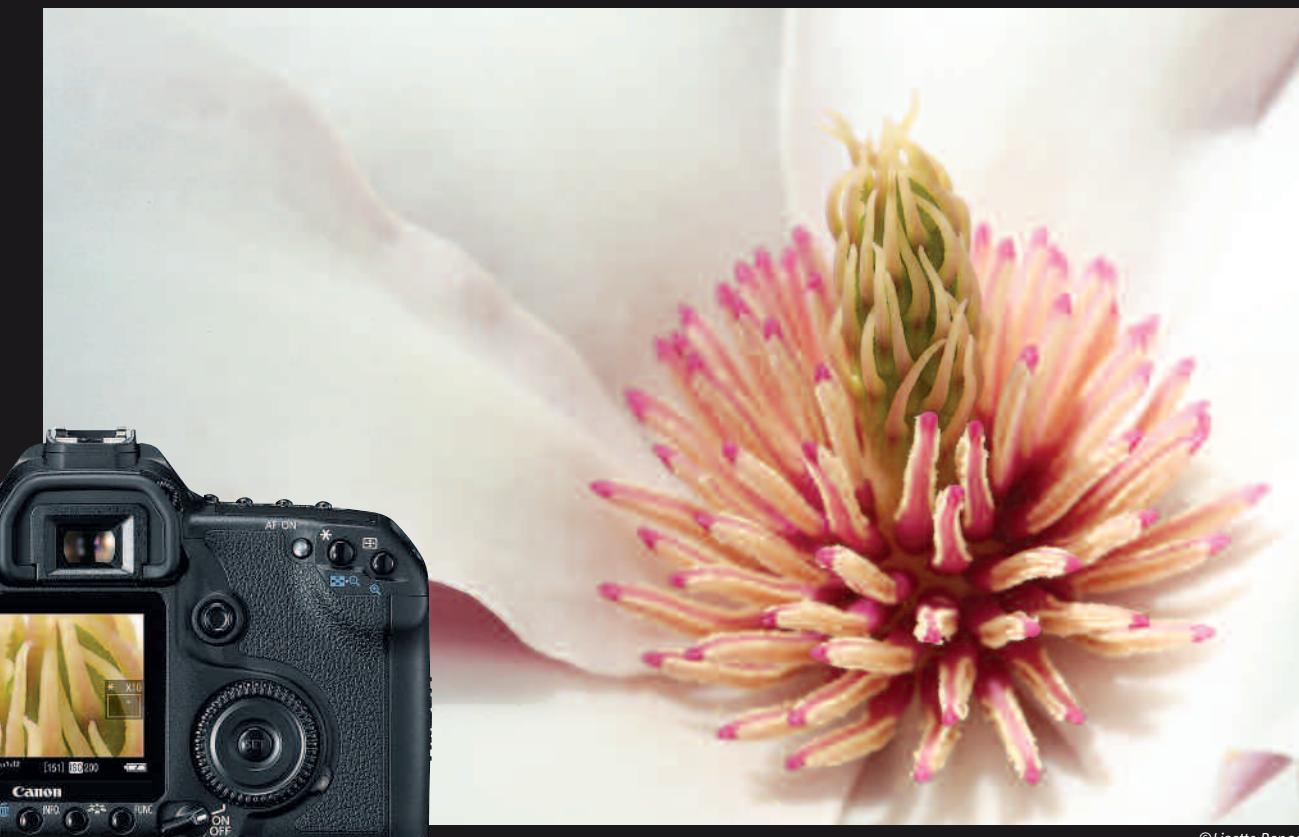
Superb Ergonomics and Custom Functions

Refined ergonomics and smooth operability are Canon EOS traditions, and even with the unavoidable complexities involved with digital capture, Canon's EOS interface design puts the most frequently used controls where they make the most sense—in the hands of the photographer.

Operation is enhanced by custom functions, a concept pioneered by Canon. Custom functions enable photographers to tailor features and operating functions to suit their Canon shooting style. Whether customizing a shutter speed range, specifying the parameters of bracketing, or specifying the preferred type of flash metering, to name a few, photographers have literally hundreds of choices in how they want their EOS Digital SLR to operate. Among digital camera makers, Canon is unique in its in-house capabilities.

Canon's ability to rapidly develop and manufacture proprietary ASICs (Application-Specific Integrated Circuits) eliminates dependence on common "off-the-shelf" components, and enables the fast deployment of new, innovative solutions in digital camera design. Canon EOS Digital SLR cameras thus incorporate the world's most advanced sensors, processors, and other key components—components that are unavailable to other camera makers. Combined with Canon's unequalled electromechanical and optical design know-how, these digital technologies make EOS simply the finest digital SLR system anyone can own.

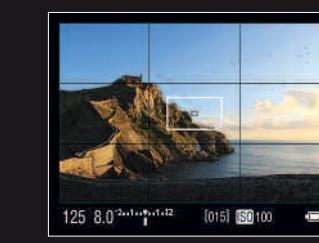
Live View Shooting



©Lisette Ranga

Live View Function

Canon's spectacular Live View shooting is now available through most of the EOS Digital models. Live View Function, where the photographer can compose and shoot directly from the camera's LCD is an indispensable feature for creative photography in any number of situations. It enables the photographer to zoom in and navigate the composition 5x or 10x normal size, while enabling critical focus and allowing more attention to detail. Users can even choose a grid overlay, perfect for architectural photography. In the studio, Live View Function can be used remotely (via a computer) through the camera's USB connection, or wirelessly if the optional Wireless File Transmitter is used.



Live View Focusing



One of the elements distinguishing Canon's Live View Function from other manufacturers is the sophisticated focusing modes available, including Quick mode, Live mode, and Face Detection Live mode. In Quick mode, One-Shot AF is set automatically and the AF point is selectable even while the Live View image is displayed. In Live mode, AF can be started by pressing the AE button for either AF mode. In Face Detection Live mode, the largest face near center is detected initially, but the Multi-controller can be used to select any face detected.



FULL HD
1080

Video Shooting with Live View Function

Select EOS cameras can shoot HD video in resolutions up to 1920 x 1080. Shooting video with an EOS Digital camera increases the photographer's flexibility and allows for full-use of compatible lenses including Wide Angle, Macro, Tilt-Shift lenses and more (zooming is not available while shooting video). Full HD shooting is at a frame rate of 30 fps with the EOS 5D Mark II, and 20 fps with the EOS Rebel T1i. Both the EOS Rebel T1i and the EOS 5D Mark II have built-in microphones for sound recording. The EOS 5D Mark II adds a microphone input terminal for external microphones. Playback modes are available in-camera, and all Live View AF features can be used while composing and shooting video.



EOS REBEL T1i

The Journey Continues.

A remarkable combination of power and simplicity, Canon's new EOS Rebel T1i gives you uncompromised EOS performance with the power and flexibility of HD video, captured right in the palm of your hand. Even if you're a beginner to SLR photography, with the EOS Rebel T1i, you'll be amazed at the ease with which you'll be shooting professional caliber photos and HD movies from the moment you pick it up. For portable creativity, there's nothing like the EOS Rebel T1i. It's the EOS system on the move!

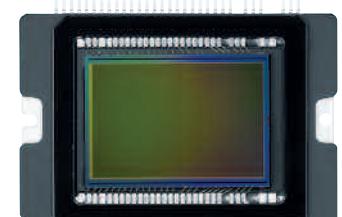


EOS Rebel T1i TECHNOLOGY

Sophisticated Stills and Moving Features – Simple Operation

The EOS Rebel T1i is packed with features, both refined and new. In addition to its amazing performance with an all-new 15.1-megapixel Canon CMOS sensor, an amazing **DIGIC 4** Image Processor, a 3.0-inch Clear View LCD (920,000 dots/VGA) with anti-reflective and scratch resistant coating plus compatibility with the entire EOS system of lenses and Speedlites, the EOS Rebel T1i adds remarkable full HD video capture at resolutions up to 1920 x 1080. A new HDMI port allows for quick connections to HD televisions and monitors for easy viewing of your stills and videos.

High Image Quality



APS-C CMOS Sensor (actual size)

Canon's CMOS (complementary metal oxide semiconductor) sensor captures images with exceptional clarity and tonal range, and offers the most pixels in its class. It offers many of the same technologies found in Canon's professional cameras that maximize each pixel's light gathering efficiency. Its APS-C size sensor creates an effective 1.6x field of view. Canon's **DIGIC 4** Image Processor dramatically speeds up all camera operations for intuitive operation and offers improvements in both fine detail and natural color reproduction. It works in concert with the cameras sensor to achieve unprecedented levels of performance in all lighting situations. It performs analog to digital signal conversion with a 14-bit processor, generating incredibly smooth film-like files that set the standard for digital photography.

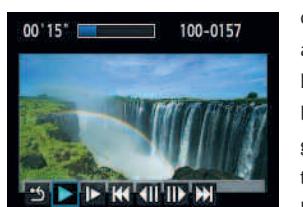
Wide Range ISO Setting

The EOS Rebel T1i features a greatly expanded ISO range that makes shooting possible in low-light situations previously impossible without a flash. With an expanded setting of up to ISO 12800*, along with the **DIGIC 4** Image Processor's improved noise-reduction technology, the creative possibilities for indoor or low-light situations are nearly endless. Combine the EOS Rebel T1i with one of Canon's incredible Image Stabilized EF or EF-S lenses and watch your shooting possibilities expand even further.

Full HD Video Recording

The EOS Rebel T1i shoots brilliant movies, even in full high-definition. By simply

selecting Movie mode on the EOS Rebel T1i's mode dial, the EOS Rebel T1i's 3.0-inch screen lights up and it's ready to go. The benefits of shooting video with the EOS Rebel T1i are enormous: thanks to the EOS Rebel T1i's high-sensitivity sensor, movies shot at night appear crisp and detailed. And thanks to the broad range of EF and EF-S lenses compatible with the EOS Rebel T1i, not only are a vast range



Playback mode

of focal lengths available, but beautiful effects like blurred backgrounds are easy to make with the large aperture lenses that can

be used without compromise. Playback modes are

easy to access, and all live-view AF features can be

used when shooting video.



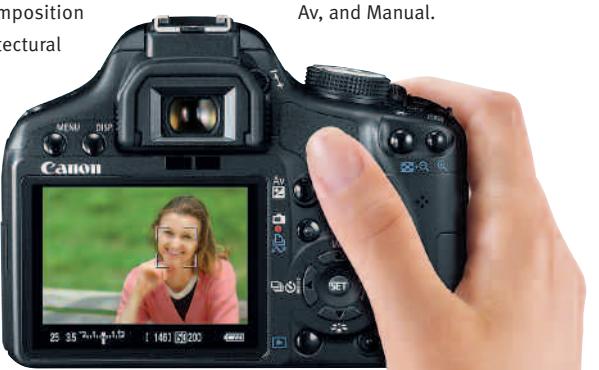
3.0-inch Rugged and Reduced Glare High-resolution Screen
The EOS Rebel T1i has a 3.0-inch high resolution LCD screen that features 920,000 dots, far more detail than previous LCD screens, making for easier focus confirmation, both in Live-View shooting, and when reviewing shots. It's the same screen found on professional models like the EOS 5D Mark II. A number of features enhance usability: an anti-reflection and water-repellant coating provides a clearer and more smudge-resistant surface and a light sensor mounted below the screen enables automatic brightness adjustment in accordance with ambient light.



Auto Lighting Optimizer for Superior Highlight and Shadow Control

The EOS Rebel T1i's Auto Optimization is yet another image-quality tool that comes to the rescue in tricky lighting conditions. It can actually lighten dark areas of a scene while ensuring that bright areas maintain tonal detail. It's perfect for shooting in backlit situations where the subject would normally be underexposed. This terrific feature is available in

all shooting modes, including P, Tv, Av, and Manual.



* Standard output sensitivity. Recommended exposure index.



©Tyler Stableford

EOS 5D Mark II

High Performance for High Expectations.

The EOS 5D Mark II has a stunning 21.1-megapixel full-frame CMOS sensor with **DiGIC 4** Image Processor, a vast ISO Range of 100–6400 (expandable to ISO L: 50, H1: 12800 and H2: 25600)*, up to 3.9 fps, 9 AF points and 6 AF assist points. Plus it supports Live View shooting for both stills and video, stunning HD video shooting at 1920 x 1080 resolution, a 3.0-inch Clear View LCD (920,000 dots/VGA) and a rugged build. Full-frame shooters rejoice!



EOS 5D Mark II TECHNOLOGY

All Leading-Edge Features in One EOS 5D Mark II: Canon's Most Advanced Camera Ever

There's no question that the EOS 5D Mark II has industry-leading specifications: its sensor, ISO Range, image processor and HD video abilities are nothing short of amazing. However, a camera's features mean very little if they are merely the sum of their parts. With the EOS 5D Mark II, everything from the sensor to the user interface is designed to work in concert not only to provide a satisfying shooting experience, but also to deliver images of only the highest quality. Canon's dominance in the digital SLR market is secured with a high percentage of knockout images delivered every time.

Full-Frame 21.1-Megapixel CMOS Sensor



Full-Frame CMOS Sensor (actual size)



The EOS 5D Mark II features Canon's largest full-frame CMOS Sensor. At 21.1 megapixels, it delivers images of up to 5616 x 3744 pixels, corresponding to approx 21.1 megapixels and 6.1MB recording sizes. And since it is full frame, all EF lenses will work as they would on a 35mm camera without a conversion factor. This comes in especially handy when shooting with wide-angle lenses. The EOS 5D Mark II also offers full 14-bit A/D conversion. The analog output from the image sensor is converted into digital via 14-bit conversion instead of previously used 12-bit conversion, resulting in significantly finer tonal gradation for better images and prints. For the flexibility to shoot in even the most dimly lit situations, the EOS 5D Mark II offers Canon's highest ISO sensitivity to date: sensitivities from 100–6400, expandable to ISO 50 (L), 12800 (H1) and 25600 (H2)*. Thanks to improved noise reduction technologies, images shot even at highest sensitivity will be remarkably smooth. The EOS 5D Mark II also features 6 JPEG recording settings and 3 RAW settings, for greater shooting versatility. Accordingly, the EOS 5D Mark II has an image quality recording menu with distinct sections to choose any combination of RAW and JPEG recording.

DiGIC4 Image Processor

The EOS 5D Mark II's sensor is backed up by Canon's **DiGIC 4** Image Processor, which speeds

up all operations making a number of advanced features possible. Processor intensive operations like Face Detection Live mode, HD video and sound recording, Auto Lighting Optimizer and Lens Peripheral Illumination Correction are all possible thanks to the **DiGIC 4** Image Processor.

Live View Function

Live View Function, where the photographer can compose and shoot directly from the EOS 5D Mark II's LCD, is indispensable for creative photography in any number of situations. When shooting still images, it enables the photographer to zoom in and navigate the composition 5x or 10x normal size, while enabling critical focus and allowing more attention to detail. There's even 2 grid overlays, perfect for architectural photography. The EOS 5D Mark II's Live View focusing modes include Quick mode, Live mode and Face Detection Live mode. In Quick mode, phase-difference detection with the camera's AF sensor is used. When the AF start button is pressed, the camera's mirror goes down, AF is executed, and the focused image is brought up on the camera's screen. In Live mode, contrast-detection AF with the image sensor is used. The focus point location can be changed quickly and easily. In Face Detection Live mode, contrast is used to detect the human face. If a number of people are detected in the image, the largest face, or the face closest to the center of the composition is favored.

Full HD Video Recording

The EOS 5D Mark II offers recording of Full HD video in Live View Mode. Capable of shooting clips almost half an hour long in full 1920 x 1080 resolution at 30 fps for up to 4GB per clip. Sound is recorded either

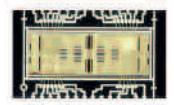


FULL HD
1080

through the camera's built-in microphone or through an external microphone for stereo sound connected to the camera's microphone input terminal. The EOS 5D Mark II does amazing double duty, making it possible to shoot broadcast quality video on your camera by simply changing settings. The advantages move way beyond the ability to shoot on your SLR—the wealth of high-speed lenses and shooting accessories that make EOS photography so remarkable can be used in shooting video. Where interchangeable lens video cameras cost thousands of dollars, Full HD Video on the EOS 5D Mark II, including HDMI output, is simply an added bonus to a remarkable camera.

Speed and Durability

Canon's EOS 5D Mark II not only captures images of the highest caliber possible in digital photography, it does this quickly and powerfully, in even the worst of conditions. Capable of shooting up to 3.9 fps for up to 78 shots (JPEG), the EOS 5D Mark II is indeed a speedy camera. It powers up immediately and focuses in an instant, using 9 AF points plus 6 AF assist points. Composing images is fast and easy, whether you're using the EOS 5D Mark II's high-performance viewfinder with 98% coverage, or its high-resolution (920,000 dots/VGA) 3.0-inch Clear View LCD. Beyond speed, the EOS 5D Mark II is designed to work wherever you go. It has a rugged, magnesium alloy body, a shutter designed to withstand 150,000 exposures, and sophisticated cleaning tools, both hardware and software to ensure that dust stays off of the sensor and out of your pictures. Canon's Integrated Cleaning System includes a cleaning unit designed specifically for the EOS 5D Mark II's full-frame CMOS sensor. The camera's low-pass filter even has a fluorine coating upon its surface to help repel dust. Dust that makes it past the EOS 5D Mark II's Sensor Cleaning System is easily removed in post processing using DPP software's Dust Detection Delete function, which can remove dust spots automatically from batches of image files.



AF Sensor



Shutter unit



Self Cleaning Sensor Unit

* Standard output sensitivity. Recommended exposure index.

State Of The Art... Period.

The rich heritage of Canon EOS professional SLR cameras is abundantly evident in the digital era. Top-of-the-line EOS Digital SLR cameras continue to set higher standards for innovation, reliability, speed, versatility, and image quality, providing professional photographers tools for the job that are unequaled and indispensable.

EOS
DIGITAL
For Professionals



©Tyler Stableford

EOS-1 Ds Mark III

The Flagship EOS.

The EOS-1Ds Mark III is designed from the ground up to be the most powerful, go anywhere, capture anything EOS ever made. It features a 21.1-megapixel Full-frame Canon CMOS sensor, with 14-bit A/D Conversion and Highlight Tone Priority for tremendous, outstanding images. It features Dual "DIGIC III" Image Processors, Live View Function, a 3.0-inch LCD monitor and it shoots at speeds of up to 5 fps for up to 12 RAW or 56 JPEGs.



21.1 MEGA PIXELS
CMOS
DIGIC III
FULL FRAME CMOS
Picture Style
5 Frames Per Sec
LiveView MODE
EOS Integrated Cleaning System
3.0" LCD
DIRECT PRINT
PictBridge
HI-SPEED USB



©George Lepp

EOS-1 D Mark III

Extreme Performance with Speed.

Canon's feature-packed EOS-1D Mark III has a 10.1-megapixel CMOS sensor (APS-H size) with Canon's EOS Integrated Cleaning System and a 3.0-inch LCD monitor with Canon's Live View Function. The EOS-1D Mark III has a redesigned 100% viewfinder, a 45-point AF system, and can shoot up to 10 fps. Dual "DIGIC III" Image Processors work in tandem to speed up every process while refining image quality; a lighter body has improved weather sealing and shutter durability. Every facet of the EOS experience has been enhanced with the EOS-1D Mark III.

10.1 MEGA PIXELS
CMOS
DIGIC III
Picture Style
10 Frames Per Sec
LiveView MODE
EOS Integrated Cleaning System
3.0" LCD
DIRECT PRINT
PictBridge
HI-SPEED USB





©Lewis Kemper

EOS 50D

Explore Photography.

Canon's EOS 50D is a perfect go anywhere, shoot anything camera. As comfortable in the hands of a novice as a seasoned pro, there's nothing this camera can't do! It features an APS-C sized 15.1-megapixel CMOS sensor for tremendous images, Canon's brilliant **DiGIC 4** Image Processor for fine detail and superior color reproduction, and improved ISO capabilities up to 12800*, for uncompromised shooting even in the dimmest lighting situations. It features a refined 3.0-inch Clear View LCD (920,000 dots/VGA), supercharged Live View Function, plus a number of advanced features like Canon's Image Correction and HDMI output in true HD. Pick up the EOS 50D, and you'll experience true digital inspiration!



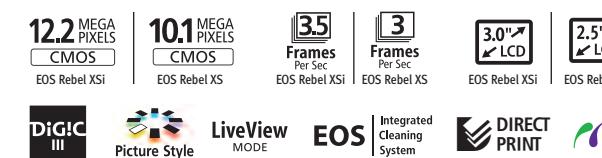
* Standard output sensitivity. Recommended exposure index.



EOS **REBEL XSi** EOS **REBEL XS**

Power Made Simple.

For perfect photos, fast and simple, there's nothing better than Canon's EOS Rebel XSi and XS. With powerful features including a 12.2-megapixel (XSi) / 10.1-megapixel (XS) CMOS Sensor, Canon's **DiGIC III** processor, fast shooting and more, it's a digital powerhouse. With simple, easy to use controls, a compact design, a 3.0-inch (XSi) / 2.5-inch (XS) LCD monitor, and Live View Function, they are a beginner's dream come true.



Both available in black or silver.

35mm SLR Photography at its Finest

With rugged construction, pace-setting features, and, of course, compatibility with the entire line of EF lenses and EOS accessories, Canon EOS 35mm SLR camera is the benchmark for performance, ease of use, and quality in 35mm SLR photography.

EOS
35mm Film



EOS-1 V

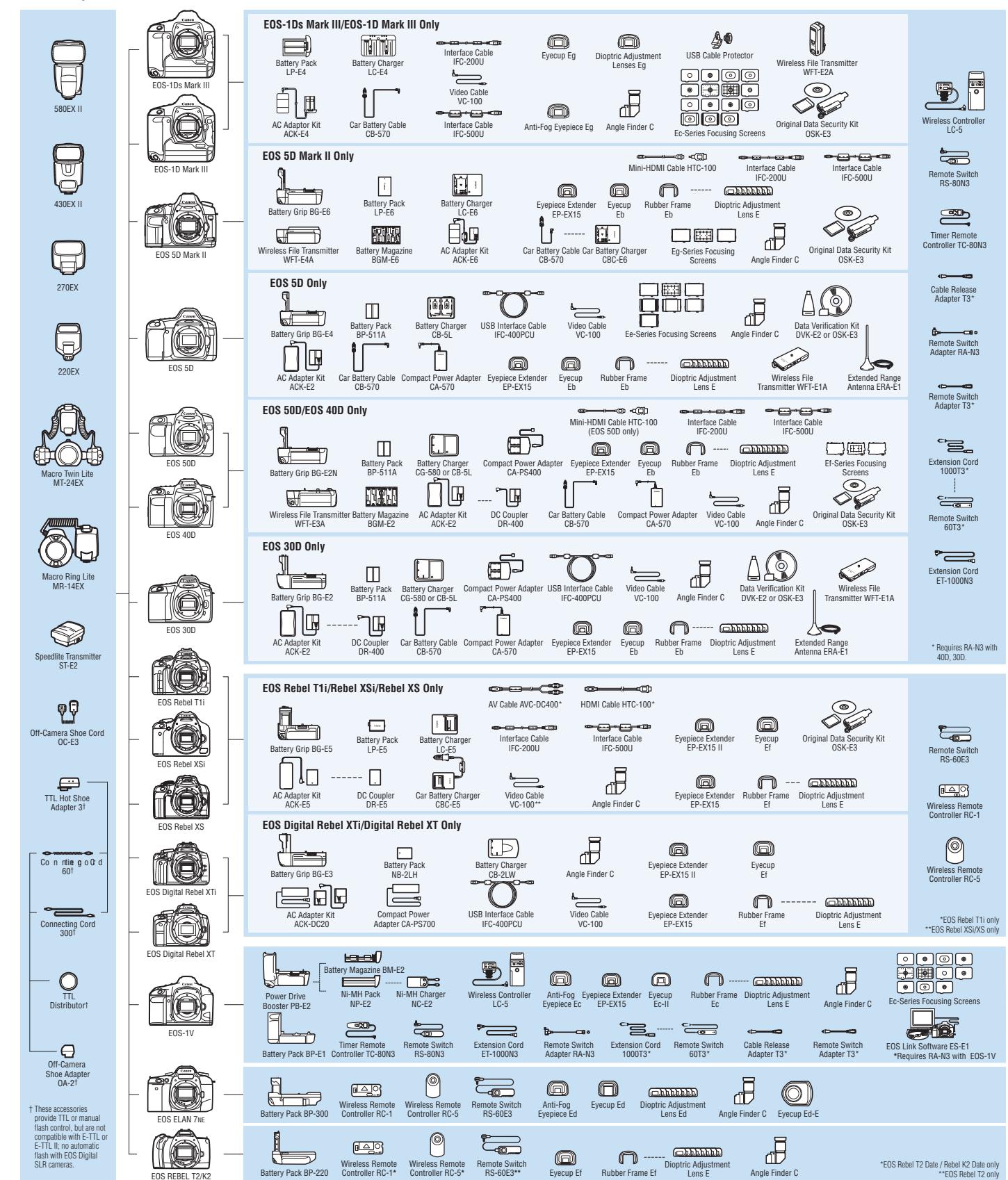
The Ultimate in Professional Vision.

With the fast AF, a continuous shooting speed of up to 10 fps[†] and a comprehensive feature set, the EOS-1v continues Canon's tradition of innovation and speed. The EOS-1v has a 45-point AF system, a top shutter speed of 1/8000 sec., a flash sync of 1/250 sec., 21-zone evaluative metering and E-TTL autoflash. The magnesium alloy body, hybrid chassis, 72 individual gaskets for proven moisture and dust resistance and a shutter tested to 150,000 cycles make this 35mm camera the ultimate professional SLR.

[†] with optional Power Drive Booster PB-E2 attached.



EOS System Chart



EOS SLR Comparison Chart

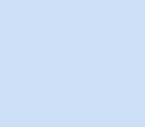
| |  |  |  |  |  |  |  |  |  |  |
|--|--|---|---|---|---|--|--|--|--|--|
| Autofocus System | TTL-AREA-SIR CMOS Sensor; One-Shot and AI Servo AF with Focus Prediction; Manual focusing confirmation possible with EF lenses; Automatic or manual focus point selection | TTL-AREA-SIR CMOS Sensor; One-Shot and AI Servo AF with Focus Prediction; Manual focusing confirmation possible with EF lenses; Automatic or manual focus point selection | TTL-CT-SIR CMOS Sensor; One-Shot and AI Servo AF with Focus Prediction; Manual focusing confirmation possible with EF lenses; Automatic or manual focus point selection | TTL-CT-SIR CMOS Sensor; One-Shot and AI Servo AF with Focus Prediction; Manual focusing confirmation possible with EF lenses; Automatic or manual focus point selection | TTL-CT-SIR CMOS Sensor; One-Shot and AI Servo AF with Focus Prediction; Manual focusing confirmation possible with EF and EF-S lenses; Automatic or manual focus point selection | TTL-CT-SIR CMOS Sensor; One-Shot and AI Servo AF with Focus Prediction; Manual focusing confirmation possible with EF and EF-S lenses; Automatic or manual focus point selection | TTL-CT-SIR CMOS Sensor; One-Shot and AI Servo AF with Focus Prediction; Manual focusing confirmation possible with EF and EF-S lenses; Automatic or manual focus point selection | TTL-CT-SIR CMOS Sensor; One-Shot and AI Servo AF with Focus Prediction; Manual focusing confirmation possible with EF and EF-S lenses; Automatic or manual focus point selection | TTL-CT-SIR CMOS Sensor; One-Shot and AI Servo AF with Focus Prediction; Manual focusing confirmation possible with EF and EF-S lenses; Automatic or manual focus point selection | TTL-AREA-SIR CMOS Sensor; One-Shot and AI Servo AF with Focus Prediction; Manual focusing confirmation possible with EF lenses; Automatic and manual focusing point selection |
| Image Processor / Image Sensor | Dual "DIGIC III" / 36 x 24mm, Single-plate CMOS Sensor with Auto Sensor Cleaning | Dual "DIGIC III" / 28.1 x 18.7mm, Single-plate CMOS Sensor with Auto Sensor Cleaning | DIGIC IV / 36.0 x 24.0mm, Single-plate CMOS Sensor with Auto Sensor Cleaning | DIGIC IV / 35.8 x 23.9mm, Single-plate CMOS Sensor with Auto Sensor Cleaning | DIGIC 4 / 22.3 x 14.9mm, single-plate CMOS Sensor with Auto Sensor Cleaning | DIGIC 4 / 22.3 x 14.9mm, single-plate CMOS Sensor with Auto Sensor Cleaning | DIGIC III / 22.2 x 14.8mm, Single-plate CMOS Sensor with Auto Sensor Cleaning | DIGIC III / 22.2 x 14.8mm, Single-plate CMOS Sensor with Auto Sensor Cleaning | DIGIC III / 22.2 x 14.8mm, Single-plate CMOS Sensor with Auto Sensor Cleaning | TTL-AREA-SIR CMOS Sensor; One-Shot and AI Servo AF with Focus Prediction; Manual focusing confirmation possible with EF lenses; Automatic and manual focusing point selection |
| Crop Factor | 1.0x (Full-frame) | 1.3x (APS-H) | 1.0x (full-frame) | 1.0x (full-frame) | 1.6x (APS-C) | 1.6x (APS-C) | 1.6x (APS-C) | 1.6x (APS-C) | 1.6x (APS-C) | 1.6x (APS-C) |
| Special Features | <ul style="list-style-type: none"> • 21.1 Megapixel CMOS Digital SLR camera • Built-in 3.0" (approx. 230,000 dots) wide viewing angle color monitor • N3 remote control socket • N3 remote control socket • USB compatible • Magnesium alloy body • 57 Custom functions in 4 sets • Dust Reduction feature • Picture Style • Live View Function • Multi-controller • Dual Control Dial • Simultaneous RAW and JPEG image capture • Dioptric adjustment • Depth-of-field preview | <ul style="list-style-type: none"> • FE lock • Mirror lock • N3 remote control socket • N3 remote control socket • USB 2.0 Hi-Speed compatible • 25 Custom functions with 71 settings • 21 Custom functions with 57 settings • Multi-controller • Simultaneous RAW and JPEG image capture • Live View Function & Face Detection Live mode • Live View movies in Full HD • Dioptric adjustment • Depth-of-field preview | <ul style="list-style-type: none"> • 10.1 Megapixel CMOS Digital SLR camera • Built-in 3.0" (approx. 920,000 dots) wide viewing angle color monitor • N3 remote control socket • N3 remote control socket • USB 2.0 Hi-Speed compatible • 25 Custom functions with 72 settings • 24 Custom functions with 62 settings • Multi-controller • Simultaneous RAW and JPEG image capture • Live View Function & Face Detection Live mode • Dioptric adjustment • Depth-of-field preview | <ul style="list-style-type: none"> • 12.8 Megapixel CMOS Digital SLR camera • Built-in 3.0" (approx. 920,000 dots) wide viewing angle color monitor • N3 remote control socket • N3 remote control socket • USB 2.0 Hi-Speed compatible • 13 Custom functions with 39 settings • 13 Custom functions with 35 settings • Multi-controller • Simultaneous RAW and JPEG image capture • Live View Function & Face Detection Live mode • Dioptric adjustment • Depth-of-field preview | <ul style="list-style-type: none"> • 15.1 Megapixel CMOS Digital SLR camera • Built-in 3.0" (approx. 230,000 dots) wide viewing angle color monitor • N3 remote control socket • N3 remote control socket • USB 2.0 Hi-Speed compatible • 12 Custom functions with 32 settings • 13 Custom functions with 35 settings • Multi-controller • Simultaneous RAW and JPEG image capture • Live View Function & Face Detection Live mode • Dioptric adjustment • Depth-of-field preview | <ul style="list-style-type: none"> • 12.8 Megapixel CMOS Digital SLR camera • Built-in 2.5" (approx. 230,000 dots) wide viewing angle color monitor • N3 remote control socket • N3 remote control socket • USB 2.0 Hi-Speed compatible • Double hybrid stainless steel mirror box • Picture Style • Dust reduction feature • Live View Function • Dioptric adjustment • Depth-of-field preview | <ul style="list-style-type: none"> • 10.1 Megapixel CMOS Digital SLR camera • Built-in 3.0" (approx. 920,000 dots) wide viewing angle color monitor • N3 remote control socket • N3 remote control socket • USB 2.0 Hi-Speed compatible • Double hybrid stainless steel mirror box • Picture Style • Dust reduction feature • Live View Function • Dioptric adjustment • Depth-of-field preview | <ul style="list-style-type: none"> • 10.1 Megapixel CMOS Digital SLR camera • Built-in 3.0" (approx. 920,000 dots) wide viewing angle color monitor • N3 remote control socket • N3 remote control socket • USB 2.0 Hi-Speed compatible • Double hybrid stainless steel mirror box • Picture Style • Dust reduction feature • Live View Function • Dioptric adjustment • Depth-of-field preview | <ul style="list-style-type: none"> • 10.1 Megapixel CMOS Digital SLR camera • Built-in 3.0" (approx. 920,000 dots) wide viewing angle color monitor • N3 remote control socket • N3 remote control socket • USB 2.0 Hi-Speed compatible • Double hybrid stainless steel mirror box • Picture Style • Dust reduction feature • Live View Function • Dioptric adjustment • Depth-of-field preview | <ul style="list-style-type: none"> • 10.1 Megapixel CMOS Digital SLR camera • Built-in 3.0" (approx. 920,000 dots) wide viewing angle color monitor • N3 remote control socket • N3 remote control socket • USB 2.0 Hi-Speed compatible • Double hybrid stainless steel mirror box • Picture Style • Dust reduction feature • Live View Function • Dioptric adjustment • Depth-of-field preview |
| Number of Focusing Points | 45 (Area AF Ellipse) 19 cross-type AF points (plus 26 Assist AF points) | 45 (Area AF Ellipse) 19 cross-type AF points (plus 26 Assist AF points) | 9 (plus 6 Assist AF points) Center AF point is cross-type; Hybrid high and standard precision | 9; Center AF point is cross-type; Hybrid high and standard precision | 9; Each AF point has cross-type sensors; Center AF point also has additional, high-precision cross-type sensor with f/2.8 or faster lenses | 9; Each AF point has cross-type sensors; Center AF point also has additional, high-precision cross-type sensor with f/2.8 or faster lenses | 9; Center AF point is cross-type with added high-precision horizontal sensor (f/2.8 or faster lenses) | 9; Center AF point is cross-type with added high-precision horizontal sensor (f/2.8 or faster lenses) | 7 Center AF point is cross-type; Hybrid high and standard precision | 7 Center AF point is cross-type; Hybrid high and standard precision |
| ISO Range* | ISO 100-1600, ISO 50 and 3200 via Menu Selection | ISO 100-3200, ISO 50 and 3400 via Menu Selection | ISO 100-6400, ISO 50, 12800 and 25600 via Menu Selection | ISO 100-1600, ISO 50 and 3200 via Menu Selection | ISO 100-3200, ISO 6400 and 12800 via Custom Function | ISO 100-1600 |
| Recording Media | UDMA CF/CF card (Type I or II), SD/SDHC** memory card | CF card (Type I or II), SD/SDHC** memory card | UDMA CF/CF card (Type I or II) | CF card (Type I or II) | UDMA CF/CF card (Type I or II) | CF card | SD/SDHC memory card | SD/SDHC memory card | SD/SDHC memory card | SD/SDHC memory card |
| Frames Per Second | Single, 3.0 fps, 5.0 fps | Single, 3.0 fps, 10.0 fps | Single, 3.9 fps | Single and 3.0 fps | Single, 3.0 fps, 6.3 fps | Single, 3.0 fps, 6.5 fps | Single and 3.4 fps | Single and 3.5 fps | Single, 3.0 fps | Single and 3.5 fps |
| Shutter Speeds | 30-1/8000 sec. & Bulb; manually settable in 1/3-, 1/2-, 1-stop increments | 30-1/8000 sec. & Bulb; manually settable in 1/3-, 1/2-, 1-stop increments | 30-1/8000 sec. & Bulb; manually settable in 1/3-, 1/2-stop increments | 30-1/8000 sec. & Bulb; manually settable in 1/3- or 1/2-stop increments | 30-1/8000 sec. & Bulb; manually settable in 1/3- or 1/2-stop increments | 30-1/8000 sec. & Bulb; manually settable in 1/3- or 1/2-stop increments | 30-1/4000 sec. & Bulb; manually settable in 1/3-stop increments | 30-1/4000 sec. & Bulb; manually settable in 1/3-stop increments | 30-1/4000 sec. & Bulb; manually settable in 1/3-stop increments | 30-1/4000 sec. & Bulb; manually settable in 1/3-stop increments |
| Autofocus Sensitivity | EV -1-18 (at ISO 100) | EV -1-18 (at ISO 100) | EV -0.5-18 (at ISO 100) | EV -0.5-18 (at ISO 100) | EV -0.5-18 (at ISO 100) | EV -0.5-18 (at ISO 100) | EV -0.5-18 (at ISO 100) | EV -0.5-18 (at ISO 100) | EV -0.5-18 (at ISO 100) | EV -0.5-18 (at ISO 100) |
| Autofocus Auxiliary Light Built-in | – | – | – | – | Yes (via built-in flash) | Yes (via built-in flash) | Yes (via built-in flash) | Yes (via built-in flash) | Yes (via built-in flash) | Yes (via built-in flash) |
| Shutter | Vertical-travel, focal-plane shutter with soft-touch electromagnetic release, all speeds electronically controlled | Vertical-travel, focal-plane shutter with soft-touch electromagnetic release, all speeds electronically controlled | Vertical-travel, mechanical, focal-plane shutter with soft-touch electromagnetic release, all speeds electronically controlled | Vertical-travel, focal-plane shutter with soft-touch electromagnetic release, all speeds electronically controlled | Vertical-travel, focal-plane shutter with soft-touch electromagnetic release, all speeds electronically controlled | Vertical-travel, focal-plane shutter with soft-touch electromagnetic release, all speeds electronically controlled | Vertical-travel, focal-plane shutter with soft-touch electromagnetic release, all speeds electronically controlled | Vertical-travel, focal-plane shutter with soft-touch electromagnetic release, all speeds electronically controlled | Vertical-travel, focal-plane shutter with soft-touch electromagnetic release, all speeds electronically controlled | Vertical-travel, focal-plane shutter with soft-touch electromagnetic release, all speeds electronically controlled |
| Maximum Flash Synchronization Speed | Up to 1/250 sec.; high-speed sync. available with EX-series Speedlites | Up to 1/300 sec.; high-speed sync. available with EX-series Speedlites | Up to 1/200 sec.; high-speed sync. available with EX-series Speedlites | Up to 1/200 sec.; high-speed sync. available with EX-series Speedlites | Up to 1/200 sec.; high-speed sync. available with EX-series Speedlites | Up to 1/250 sec.; high-speed sync. available with EX-series Speedlites | Up to 1/200 sec.; high-speed sync. available with EX-series Speedlites | Up to 1/200 sec.; high-speed sync. available with EX-series Speedlites | Up to 1/200 sec.; high-speed sync. available with EX-series Speedlites | Up to 1/200 sec.; high-speed sync. available with EX-series Speedlites |
| Metering System | TTL full-aperture metering: • 63-zone Evaluative metering • 8.5% Partial metering • 2.4% Center spot metering • 2.4% Spot metering (linked to user-selected focusing point) | TTL full-aperture metering: • Multi-spot metering (up to 8 spot readings) • Center-weighted average metering • Pre-flash metering (E-TTL II) | TTL full-aperture metering: • 35-zone Evaluative metering • 8.5% Partial metering • 3.8% Center spot metering • 3.8% Spot metering (linked to user-selected focusing point) | TTL full-aperture metering: • 35-zone Evaluative metering • 8% Partial metering • 3.8% Center spot metering • 3.8% Spot metering • Center-weighted average metering • Pre-flash metering (E-TTL II) | TTL full-aperture metering: • 35-zone Evaluative metering • 9% Partial metering • 3.8% Center spot metering • 3.8% Spot metering • Center-weighted average metering • Pre-flash metering (E-TTL II) | TTL full-aperture metering: • 35-zone Evaluative metering • 9% Partial metering • 4% Center spot metering • 4% Spot metering • Center-weighted average metering • Pre-flash metering (E-TTL II) | TTL full-aperture metering: • 35-zone Evaluative metering • 9% Partial metering • 4% Center spot metering • 4% Spot metering • Center-weighted average metering • Pre-flash metering (E-TTL II) | TTL full-aperture metering: • 35-zone Evaluative metering • 9% Partial metering • 4% Center spot metering • 4% Spot metering • Center-weighted average metering • Pre-flash metering (E-TTL II) | TTL full-aperture metering: • 2.4% center spot metering • 2.4% spot metering (linked to user selected TTL flash focusing point) • Center-weighted average metering • Pre-flash metering (up to 8 spot readings) | TTL full-aperture metering: • 2.4% center spot metering • 2.4% spot metering (linked to user selected TTL flash focusing point) • Center-weighted average metering • Pre-flash metering (up to 8 spot readings) |
| Metering Sensitivity | EV 0-20 for all patterns (at ISO 100 with f/1.4 lens) | EV 0-20 for all patterns (at ISO 100 with f/1.4 lens) | EV 1-20 for all patterns (at ISO 100 with f/1.4 lens) | EV 1-20 for all patterns (at ISO 100 with f/1.4 lens) | EV 1-20 for all patterns (at ISO 100 with f/1.4 lens) | EV 1-20 for all patterns (at ISO 100 with f/1.4 lens) | EV 1-20 for all patterns (at ISO 100 with f/1.4 lens) | EV 1-20 for all patterns (at ISO 100 with f/1.4 lens) | EV 1-20 for all patterns (at ISO 100 with f/1.4 lens) | EV 0-20 for all patterns (at ISO 100 with f/1.4 lens) |
| Exposure Compensation | ±3 stops in 1/3- or 1/2-stop increments | ±3 stops in 1/3- or 1/2-stop increments | ±2 stops in 1/3- or 1/2-stop increments | ±2 stops in 1/3- or 1/2-stop increments | ±3 stops in 1/3- or 1/2-stop increments | ±2 stops in 1/3- or 1/2-stop increments | ±2 stops in 1/3- or 1/2-stop increments | ±2 stops in 1/3- or 1/2-stop increments | ±2 stops in 1/3- or 1/2-stop increments | ±3 stops in 1/3- or 1/2-stop increments |
| Flash Exposure Compensation | ±3 stops in 1/3- or 1/2-stop increments | ±3 stops in 1/3- or 1/2-stop increments | ±2 stops in 1/3- or 1/2-stop increments | ±2 stops in 1/3- or 1/2-stop increments | ±2 stops in 1/3- or 1/2-stop increments | ±2 stops in 1/3- or 1/2-stop increments | ±2 stops in 1/3- or 1/2-stop increments | ±2 stops in 1/3- or 1/2-stop increments | ±2 stops in 1/3- or 1/2-stop increments | ±3 stops in 1/3- or 1/2-stop increments (works with all EOS Speedlites) |
| AE Lock | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Exposure Modes | <ul style="list-style-type: none"> • Shutter Speed-priority AF • Aperture-priority AE • Program AE (shiftable) • Manual • E-TTL II Flash AE • Flash Metered Manual | <ul style="list-style-type: none"> • Bulb • Shutter Speed-priority AE • Aperture-priority AE • Program AE (shiftable) • Manual • E-TTL II Flash AE • Flash Metered Manual | <ul style="list-style-type: none"> • Shutter Speed-priority AF • Aperture-priority AE • Program AE (shiftable) • Manual • E-TTL II Flash AE • Flash Metered Manual | <ul style="list-style-type: none"> • Bulb • Shutter Speed-priority AE • Aperture-priority AE • Program AE (shiftable) • Manual • E-TTL II Flash AE • Flash Metered Manual | <ul style="list-style-type: none"> • Program AF (shiftable) • Shutter Speed-priority AE • Aperture-priority AE • Creative Auto • Full Auto • Manual • E-TTL II Flash AE | <ul style="list-style-type: none"> • Program AF (shiftable) • Shutter Speed-priority AE • Aperture-priority AE • Full Auto • Manual • E-TTL II Flash AE | <ul style="list-style-type: none"> • Program AF (shiftable) • Shutter Speed-priority AE</li | | | |

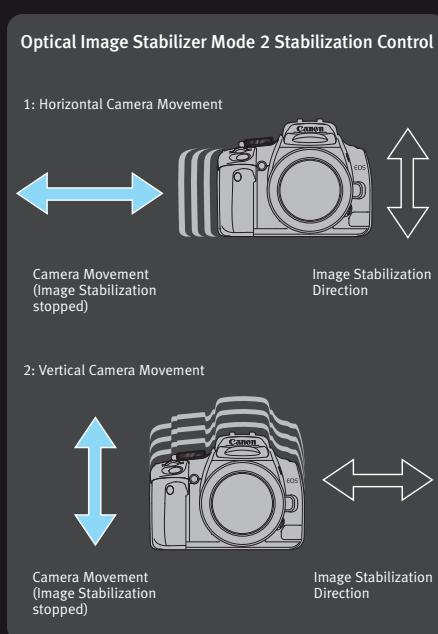
Image Format and Capacity Chart

| Image Format | Recording Resolution | Recording Method | Compression Rate | Image File Size (MB) | Recording Capacity (shot) | Image Format | Recording Resolution | Recording Method | Compression Rate | Image File Size (MB) | Recording Capacity (shot) | | |
|-------------------|---|---|---------------------------|----------------------|---------------------------|-----------------|--|---|---|--------------------------|---------------------------|------------|------|
| EOS-10s Mark II** | | | | | | EOS 50D* | | | | | | | |
| JPEG | Large | 5616 x 3744 (Approx. 21.00 megapixels) | JPEG | Low Compression | 6.4 | 290 | JPEG | Large/Fine | 4752 x 3168 (Approx. 15.10 megapixels) | JPEG | Low Compression | 5.0 | 370 |
| | Medium 1 | 4992 x 3328 (Approx. 16.6 megapixels) | | | 5.2 | 350 | | Large/Normal | 3456 x 2304 (Approx. 8.00 megapixels) | | High Compression | 2.5 | 740 |
| | Medium 2 | 4096 x 2700 (Approx. 11.0 megapixels) | | | 3.9 | 470 | | Medium/Normal | 2384 x 1568 (Approx. 3.70 megapixels) | | Low Compression | 3.0 | 620 |
| | Small | 1936 x 1288 (Approx. 2.5 megapixels) | | | 2.2 | 840 | | Small/Fine | 2382 x 1568 (Approx. 3.70 megapixels) | | High Compression | 1.6 | 1190 |
| RAW | .CR2 | 5616 x 3744 (Approx. 21.00 megapixels) | Lossless Compression | — | 25.0 | 75 | | Small/Normal | 2382 x 1568 (Approx. 3.70 megapixels) | | Low Compression | 0.9 | 2940 |
| RAW | Large | — | RAW + Separate JPEG File | — | 25.0 + 6.4 | 54 | RAW .CR2 | 4752 x 3168 (Approx. 15.10 megapixels) | Lossless Compression | — | 20.2 | 91 | |
| + Medium 1 | Medium 2 | — | | | 25.0 + 5.2 | 57 | | Large/Fine | — | RAW + Separate JPEG File | — | 20.2 + 5.0 | 72 |
| | Small | — | | | 25.0 + 3.9 | 60 | | Large/Normal | — | | 20.2 + 2.5 | 80 | |
| sRAW | CR2 | 2784 x 1856 (Approx. 5.2 megapixels) | Lossless Compression | — | 14.5 | 130 | | Medium/Fine | — | | 20.2 + 3.0 | 79 | |
| sRAW | Large | — | sRAW + Separate JPEG File | — | 14.5 + 6.4 | 82 | | Medium/Normal | — | | 20.2 + 1.6 | 84 | |
| + Medium 1 | Medium 2 | — | | | 14.5 + 5.2 | 90 | | Small/Fine | — | | 20.2 + 1.7 | 83 | |
| | Small | — | | | 14.5 + 3.9 | 97 | | Small/Normal | — | | 20.2 + 0.9 | 87 | |
| EOS-1D Mark III** | | | | | | sRAW1 .CR2 | 3267 x 2178 (Approx. 7.10 megapixels) | Lossless Compression | — | 12.6 | 140 | | |
| JPEG | Large | 3888 x 2592 (Approx. 10.10 megapixels) | JPEG | Low Compression | 3.5 | 260 | sRAW1 Large/Fine | — | sRAW1 | — | 12.6 + 5.0 | 100 | |
| | Medium 1 | 3456 x 2304 (Approx. 8.0 megapixels) | | | 2.8 | 320 | + Large/Normal | — | | 12.6 + 2.5 | 120 | | |
| | Medium 2 | 2816 x 1880 (Approx. 5.3 megapixels) | | | 2.1 | 420 | + Medium/Fine | — | | 12.6 + 3.0 | 110 | | |
| | Small | 1936 x 1288 (Approx. 2.5 megapixels) | | | 1.2 | 710 | + Medium/Normal | — | | 12.6 + 1.6 | 130 | | |
| RAW | .CR2 | 3888 x 2592 (Approx. 10.10 megapixels) | Lossless Compression | — | 13.0 | 66 | + Small/Normal | — | | 12.6 + 0.9 | 130 | | |
| RAW | Large | — | RAW + Separate JPEG File | — | 13.0 + 3.5 | 52 | sRAW2 .CR2 | 2376 x 1584 (Approx. 3.80 megapixels) | Lossless Compression | — | 9.2 | 200 | |
| + Medium 1 | Medium 2 | — | | | 13.0 + 2.8 | 54 | sRAW2 Large/Fine | — | sRAW2 | — | 9.2 + 5.0 | 120 | |
| | Small | — | | | 13.0 + 2.1 | 56 | + Large/Normal | — | | 9.2 + 2.5 | 150 | | |
| sRAW | CR2 | 1936 x 1288 (Approx. 2.5 megapixels) | Lossless Compression | — | 7.6 | 110 | + Medium/Fine | — | | 9.2 + 3.0 | 150 | | |
| sRAW | Large | — | sRAW + Separate JPEG File | — | 7.6 + 3.5 | 76 | + Medium/Normal | — | | 9.2 + 1.6 | 170 | | |
| + Medium 1 | Medium 2 | — | | | 7.6 + 2.8 | 81 | + Small/Fine | — | | 9.2 + 1.7 | 160 | | |
| | Small | — | | | 7.6 + 2.1 | 87 | | — | | 9.2 + 0.9 | 180 | | |
| EOS 5D Mark II* | | | | | | EOS 40D*** | | | | | | | |
| JPEG | Large/Fine | 5616 x 3744 (Approx. 21.00 megapixels) | JPEG | Low Compression | 6.1 | 310 | JPEG | Large/Fine | 3888 x 2592 (Approx. 10.10 megapixels) | JPEG | Low Compression | 3.5 | 274 |
| | Large/Normal | 4096 x 2700 (Approx. 11.10 megapixels) | | High Compression | 3.0 | 610 | | Large/Normal | 3456 x 2304 (Approx. 8.00 megapixels) | | High Compression | 1.8 | 523 |
| | Medium/Fine | 3276 x 2178 (Approx. 5.20 megapixels) | | Low Compression | 3.6 | 510 | | Medium/Fine | 2816 x 1880 (Approx. 5.3 megapixels) | | Low Compression | 2.1 | 454 |
| | Small/Fine | 1936 x 1288 (Approx. 2.50 megapixels) | | High Compression | 1.9 | 990 | | Small/Fine | 1936 x 1288 (Approx. 2.5 megapixels) | | High Compression | 1.1 | 854 |
| RAW | .CR2 | 5616 x 3744 (Approx. 21.00 megapixels) | Lossless Compression | — | 1.0 | 1680 | | Small/Normal | 5616 x 3744 (Approx. 21.00 megapixels) | | Low Compression | 1.2 | 779 |
| | Large/Fine | — | RAW + Separate JPEG File | — | 25.8 | 72 | | | | High Compression | 0.7 | 1451 | |
| | Large/Normal | — | | | 25.8 + 6.1 | 57 | RAW .CR2 | 3888 x 2592 (Approx. 10.10 megapixels) | Lossless Compression | — | 12.4 | 76 | |
| | Medium/Fine | — | | | 25.8 + 3.0 | 64 | RAW Large/Fine | — | RAW + Separate JPEG File | — | 12.4 + 3.5 | 59 | |
| | Small/Fine | — | | | 25.8 + 3.6 | 62 | + Large/Normal | — | | 12.4 + 1.8 | 66 | | |
| | Small/Normal | — | | | 25.8 + 1.9 | 67 | + Medium/Fine | — | | 12.4 + 2.1 | 65 | | |
| sRAW1 .CR2 | 3861 x 2574 (Approx. 10.00 megapixels) | Lossless Compression | — | 14.8 | 120 | + Medium/Normal | — | | 12.4 + 1.1 | 70 | | | |
| sRAW1 Large/Fine | — | sRAW1 | — | 14.8 + 6.1 | 89 | + Small/Fine | — | | 12.4 + 1.2 | 69 | | | |
| + Large/Normal | — | + Separate JPEG File | — | 14.8 + 3.0 | 100 | | — | | 12.4 + 0.7 | 72 | | | |
| | Medium/Fine | — | | | 14.8 + 3.6 | 100 | sRAW .CR2 | 1936 x 1288 (Approx. 2.5 megapixels) | Lossless Compression | — | 7.1 | 135 | |
| | Medium/Normal | — | | | 14.8 + 1.9 | 110 | sRAW Large/Fine | — | sRAW + Separate JPEG File | — | 7.1 + 3.5 | 90 | |
| | Small/Fine | — | | | 14.8 + 2.1 | 110 | + Large/Normal | — | | 7.1 + 1.8 | 107 | | |
| | Small/Normal | — | | | 14.8 + 1.0 | 110 | + Medium/Fine | — | | 7.1 + 2.1 | 103 | | |
| sRAW2 .CR2 | 2784 x 1856 (Approx. 5.20 megapixels) | Lossless Compression | — | 10.8 | 170 | + Medium/Normal | — | | 7.1 + 1.2 | 115 | | | |
| sRAW2 Large/Fine | — | sRAW2 | — | 10.8 + 6.1 | 110 | + Small/Fine | — | | 7.1 + 0.7 | 124 | | | |
| + Medium/Normal | — | + Separate JPEG File | — | 10.8 + 3.0 | 130 | | — | | | | | | |
| | Medium/Fine | — | | | 10.8 + 3.6 | 130 | EOS Rebel T1i*** | 4752 x 3168 (Approx. 15.10 megapixels) | JPEG | Low Compression | 5.0 | 370 | |
| | Medium/Normal | — | | | 10.8 + 1.9 | 140 | | Large/Normal | 3456 x 2304 (Approx. 8.00 megapixels) | | High Compression | 2.5 | 740 |
| | Small/Fine | — | | | 10.8 + 2.1 | 140 | | Medium/Fine | 2816 x 1880 (Approx. 5.3 megapixels) | | Low Compression | 3.0 | 610 |
| | Small/Normal | — | | | 10.8 + 1.0 | 150 | | Small/Fine | 2352 x 1568 (Approx. 3.7 megapixels) | | High Compression | 1.6 | 1190 |
| EOS 5D*** | | | | | | | Small/Normal | 2352 x 1568 (Approx. 3.7 megapixels) | | Low Compression | 1.7 | 1080 | |
| JPEG | Large/Fine | 4368 x 2912 (Approx. 12.7 megapixels) | JPEG | Low Compression | 4.6 | 101 | | | | High Compression | 0.9 | 2300 | |
| | Large/Normal | 3168 x 2112 (Approx. 6.7 megapixels) | | High Compression | 2.3 | 196 | RAW .CR2 | 4752 x 3168 (Approx. 15.10 megapixels) | Lossless Compression | — | 20.2 | 90 | |
| | Medium/Fine | 2496 x 1664 (Approx. 4.2 megapixels) | | Low Compression | 2.7 | 168 | RAW + Large/Fine | — | RAW + Separate JPEG File | — | 20.2 + 5.0 | 72 | |
| | Small/Fine | — | | High Compression | 1.4 | 319 | EOS Rebel XS**** | 4272 x 2848 (Approx. 12.2 megapixels) | JPEG | Low Compression | 4.3 | 460 | |
| RAW | .CR2 | 4368 x 2912 (Approx. 12.7 megapixels) | Lossless Compression | — | 2.0 | 233 | | Large/Normal | 3088 x 2056 (Approx. 6.3 megapixels) | | High Compression | 2.2 | 880 |
| | Large/Fine | — | RAW + Separate JPEG File | — | 1.0 | 446 | | Medium/Fine | 2256 x 1504 (Approx. 3.4 megapixels) | | Low Compression | 2.5 | 770 |
| | Large/Normal | — | | | 2.7 | 168 | | Small/Fine | 2256 x 1504 (Approx. 3.4 megapixels) | | High Compression | 1.3 | 1470 |
| | Medium/Fine | — | | | 2.0 | 233 | | Small/Normal | 4272 x 2848 (Approx. 12.2 megapixels) | | Low Compression | 1.6 | 1190 |
| | Medium/Normal | — | | | 2.0 | 233 | | | | High Compression | 0.8 | 2290 | |
| | Small/Fine | — | | | 2.0 | 233 | RAW .CR2 | 4272 x 2848 (Approx. 12.2 megapixels) | Lossless Compression | — | 15.3 | 120 | |
| | Small/Normal | — | | | 2.0 | 233 | RAW + Large/Fine | — | RAW + Separate JPEG File | — | 15.3 + 4.3 | 99 | |
| JPEG | — | | | | | EOS Rebel XS** | 4272 x 2848 (Approx. 10.1 megapixels) | JPEG | Low Compression | 3.8 | 514 | | |
| + Large/Normal | — | | | | | | Large/ | | | | | | |



Taken with EF 100-400mm f/4.5-5.6L IS USM

Optical Image Stabilizer Mode 2 — The stabilization characteristics of the Optical Image Stabilizer are set so that it is most effective when photographing stationary subjects, but when panning of a moving subject is attempted, shake-return may affect the finder image, interfering with framing. This occurs because camera movement such as panning is judged to be shaking, activating the image stabilizer. To resolve this problem, Canon developed Optical Image Stabilizer Mode 2. In this mode, if you move the lens to follow a subject for a pre-determined time, the Optical Image Stabilizer continues to correct any camera shake that's perpendicular to the panning motion. However, the Optical Image Stabilizer doesn't try to correct for the intentional panning, giving you a smooth viewfinder image as you follow the moving subject.



Taken with EF 300mm f/4L IS USM

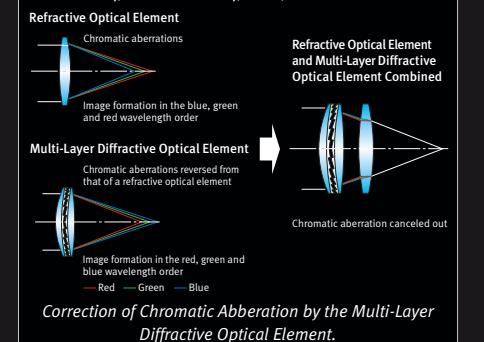
OPTICAL IMAGE STABILIZER

Diffractive Optics

Canon's use of diffractive optics (DO) results in high-performance lenses that are much smaller and lighter than traditional designs. Canon's unique multilayer diffractive elements are constructed by bonding diffractive coatings to the surfaces of two or more lens elements. These elements are then combined to form a single multilayer DO element. Conventional glass lens elements disperse incoming light, causing chromatic aberration. The DO element's dispersion characteristics are designed to cancel chromatic aberrations at various wavelengths when combined with conventional glass optics. This technology results in smaller lenses with no compromise in image quality. Canon has also developed a new triple-layer type DO lens that uses an advanced diffractive grating to deliver excellent performance, with superior control of color fringing. This configuration is ideal for zoom lens optics and provides significant



EF 400mm f/4 IS DO USM • f/4 • 1/1250 sec.



reductions in size. A good example is the EF 70-300mm f/4.5-5.6 DO IS USM lens, which is 28 percent shorter than the EF 70-300mm f/4.5-5.6 IS USM lens.

Ultrasonic Motor

Canon developed the world's first lens-based Ultrasonic Motor (USM) to power the lens autofocus mechanism. Instead of large noisy drive trains powered by conventional motors, Canon USM lenses employ the minute electronic vibrations created by piezoelectric ceramic elements. The focusing action of the lens is fast and quiet,

with virtually instantaneous stops and starts.

USM lenses also draw minimal power from the camera, ensuring longer battery life. Canon makes two types of Ultrasonic Motor lenses. Ring-type USM lenses, found in large aperture and super-telephoto designs, permit manual focusing without first switching out of the auto mode. Micro USM designs bring the performance benefits of Canon's USM technology to a wide assortment of affordable EF lenses.



Aspherical Elements

Wide-angle lenses and fast normal-focal-length lenses often suffer from spherical aberration. When the light rays coming through the center of the lens do not converge at the same point as light rays coming through the lens edge, the

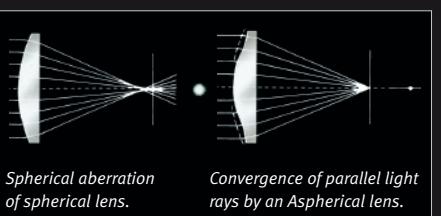


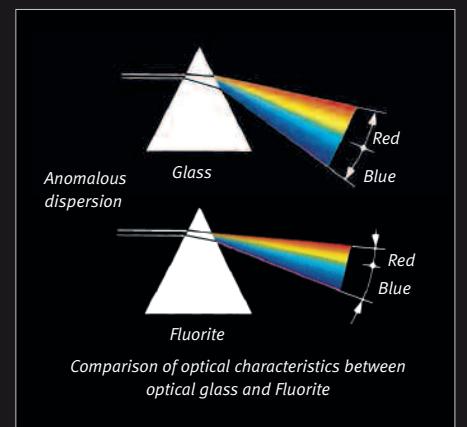
image appears blurred because there is no sharp point of focus. Canon's Aspherical elements use a varying curved surface to ensure that the entire image plane appears focused. Aspherical optics also help to correct curvilinear distortion as one might find in ultra wide-angle lenses. Finally, Canon can design aspherical elements with extremely precise variable curvature of one or both sides, making possible lighter, more compact lenses.

L-series Lenses

Most highly regarded among professional photographers, Canon L-series lenses are distinguished by a bold red ring around the outer barrel. What makes them truly distinctive, however, is their remarkable optical performance — the result of sophisticated Canon technologies, such as Ultra-low Dispersion UD glass, Fluorite and Aspherical elements, and Super Spectra Coating.

Fluorite / UD Elements

Reducing color fringing, or chromatic aberration, has been one of the great challenges in the design of telephoto lenses. L-series telephoto lenses — like the EF 70-200mm f/2.8L IS USM and EF 300mm f/4L IS USM — employ Canon's Ultra-low Dispersion glass to minimize this effect, providing much improved contrast and sharpness. Even more effective at suppressing chromatic aberration



EF 24mm f/1.4L II USM • f/6.3 • 13 sec.

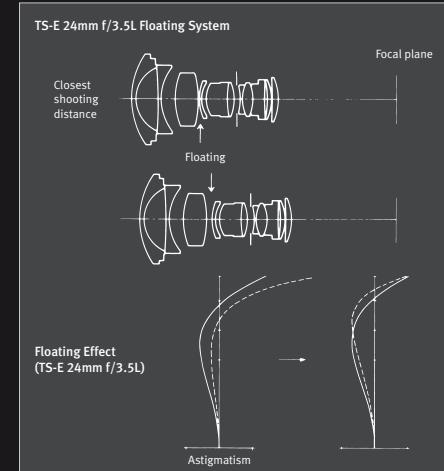
Focus Preset

Focus Preset enables you to program a focusing distance in the camera's memory. Normal picture taking and focusing are unaffected by preset distances. For example, at a soccer game, you Focus Preset the goal area. Shoot normally elsewhere on the field, but once the action moves toward the goal, the user can instantly return to the preset distance by turning a ring on the lens.

Floating System

Float

Typical lenses correct for optical aberrations only at commonly used focusing distances. Not surprisingly, at other focusing distances, especially close range, aberrations compromise image quality.



Rather than using fixed spacings, Canon's floating system dynamically varies the gap between key lens elements based on focusing distance. Aberrations are effectively suppressed throughout the focusing range, assuring high image quality in all shooting situations.

Circular Aperture

CA

Canon lenses featuring circular aperture diaphragms employ curved blades to create a smoothly rounded opening as the lens is stopped down. As a result, out-of-focus background highlights are rendered as natural-looking rounded shapes rather than as distracting polygons. These lenses deliver smooth, consistent stop-down action (even at 10 fps), near-silent operation and excellent optical characteristics.

Inner and Rear Focusing

IR

An inner focusing lens has the focusing lens group(s) in front of the diaphragm, while a rear focusing lens has the focusing lens group(s) behind the diaphragm. Both designs allow for compact optical systems that produce faster AF. And because the front of the lens does not rotate to focus, filter orientation remains constant.

AF Stop Feature

AF-S

Pressing the AF Stop button (featured on several EF IS telephoto lenses) momentarily locks the AF to prevent the focus from shifting to a passing obstruction. After the obstruction has cleared, the focus will still be on the subject, and you can quickly resume shooting. AF Stop buttons are positioned at four locations around the lens grip for easy access.

Dust- and Water-Resistant Construction

DW-R

Most L-Series EF telephoto lenses are highly dust- and water-resistant thanks to rubber seals at the switch panels, exterior seams, drop-in filter compartments and lens mounts. Moving parts, such as the focusing ring and switches, are also designed to keep out environmental contaminants, providing reliable performance under harsh conditions.



EF 100mm f/2.8 Macro USM • f/5.6 • 1/6 sec.

Full-Time Manual Focusing

FT-M

Canon EOS cameras with EF lenses deliver impeccable AF precision. Manual focusing capability, nevertheless, can enhance flexibility. Canon EF lenses with full-time manual focusing enable the photographer to manually tweak focus without switching out of AF mode. Since AF action does not cause the focusing ring to turn, it can be made wider for improved grip and comfort.

TS-E Movements

Tilt Movements alter the angle of the plane of focus between the lens and focal plane, and Shift Movements move the lens's optical axis in parallel.



TS-E 45mm f/2.8 – Reverse tilt and shift greatly reduces the range on which focusing is possible.



The lens's tilt mechanism is used to achieve a pan focus effect that allows focusing all the way back.

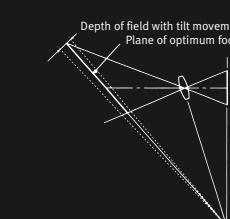


TS-E 24mm f/3.5L – Shift was used to adjust the image to keep the building perpendicular all the way to the top.

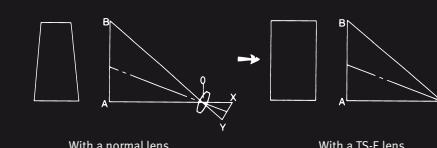


Without using shift causes the image of the building to lean in at the top.

Tilt Movements – Using a normal lens, shallow or deep focus is controlled by the size of the aperture used to adjust depth-of-field. Canon TS-E lenses can achieve this by the tilting of the lens barrel in relationship to the focal and subject planes. This allows for extremely deep focus even at wide open apertures, and shallow focus at smaller apertures.



Using Tilt Movements to Focus an Oblique Subject Plane



Using Shift Movements to Focus Tall Building

Macro

Canon's EF lens lineup has a number of options for true close-up and macro photography. With five macro lenses for precision, and three screw-on close-up lenses for convenience—in addition to Life-Size Converter EF and two Extension Tubes—Canon's macro lenses and close-up accessories can uncover detail that is impossible for the unaided human eye to detect.

Specialty Lenses

EF-S Lenses – Designed for the Canon EOS 50D and all EOS Rebel or, EOS Digital Rebel models with APS-C sized sensors (with a 1.6x crop factor), Canon's EF-S lenses take advantage of the sensor's smaller size to deliver optimized performance in compact, lightweight designs. The EF-S 17-85mm f/4.5-5.6 IS USM is a perfect example of this technology. With a compact design, a 35mm equivalent range of 27-136mm, and Optical Image Stabilizer technology, it's a superlative walk-around lens... possibly the only lens you'll need to enjoy basic Canon digital SLR photography.

Fisheye – Perfect for super wide-angle and special effect photography, Canon's full-frame fisheye can focus as close as eight inches (0.2m), and delivers exceptionally sharp images throughout its focus range. Up to three gel filters can be inserted into its built-in rear filter holder.

TS-E – TS-E lenses are capable of tilt and shift movements, which bring many of the advantages of technical view cameras to the EOS System. Tilt movements alter the angle of the plane of focus between the lens and film plane, making broad depth-of-field possible even at larger apertures; shift movements slide the lens's optical axis along the film/sensor plane, enabling photographers to correct or alter perspective at almost any angle.

**FOCAL LENGTH COMPARISON****About Macro Magnification**

A life-size macro lens—that is, a 1x magnification—records an image on film at its actual size. If you're photographing a flower, for example, and it has a diameter of 1 in., it will occupy 1 in. of your actual slide or negative. With a digital SLR, at 1.0x magnification, the image projected onto your camera's sensor will likewise be the same size at the sensor plane as the actual subject itself. Other macro lenses have lower or higher magnifications. A lens with 0.5x magnification will produce an image on film that is half the size of the actual subject. Your 1 in. flower, then would only occupy 0.5 in. on film.



In the other direction, a 5x magnification lens will convert the 1-in. flower to a 5-in. diameter image. Since the entire image won't fit in the frame of your film, you will have an enlarged image of a detail of the flower.

Magnification is not the same as focal length. A 50mm lens and a 180mm might both be macro lenses with, for example, 1.0x magnification. The advantage of the longer lens is that it allows greater distance from a subject, while allowing the same magnification in the final image. The 180mm lens is ideal for shooting tiny subjects without disturbing them; the 50mm is better choice for copying flat documents.

Focus Your Attention.

Telephoto lenses make it easy to throw backgrounds out of focus, grab detail, or "get close" to unapproachable subjects... and these EF zoom lenses are superb tools for the job. EF fixed-focal-length telephotos combine great picture quality with fast maximum apertures, making them ideal for handheld shooting in low light.

EF LENSES for EOS Cameras

Telephoto Zoom



Telephoto



Icons: See "EF Lens Technology" section. Diagram: ● Fluorite Lens ● Super UD Lens ● UD Lens ● DO Lens ● Aspherical Lens

* For EOS 50D, 40D, 30D, 20D/20Da, Rebel T1i, XSi, XS and all versions of EOS Digital Rebel only.

Up Close Detail From Afar.

Distinguished by their white color and seen at major sporting events around the world, the powerful EF super-telephotos are also ideal for nature, scenic, and even outdoor fashion photography. Canon's ring-type USM delivers unmatched focusing performance, and most feature Canon's superb Image Stabilization. EF tele extenders and extension tubes add even more power and versatility.

EF LENSES for EOS Cameras

Super Telephoto



Extenders



Icons: See "EF Lens Technology" section. Diagram: ● Fluorite Lens ● Super UD Lens ● UD Lens ● DO Lens

Solutions for Specialized Shooting.

Canon's manual focus TS-E (Tilt-Shift) lenses provide tilt capability to alter the plane of focus and shift capability for perspective correction, offering solutions for numerous applications, from architectural to studio photography. Canon also offers a range of close-up, high-magnification shooting solutions with a lineup of exceptional macro lenses and accessories.

Tilt-Shift



TS-E 45mm f/2.8



Macro



The Finest Accessories for Your Lenses.

To enhance the stellar features of the EF Lens system, there are a number of accessories designed to perform perfectly with your system. Canon offers cases to protect your lenses, hoods and filters to control glare, and a number of adapters to further expand the possibilities of your EF Lenses and your EOS System.

General Purpose



Lens Cases



Lens Hoods

Lens Cases and Lens Hoods

These functional, rugged cases are indispensable for protecting lenses. Lens hoods help prevent unwanted glare from affecting your photographs.

Available Sizes
See EF Lens Specifications.

Polarizing Filters



Not using Circular PL Filter



Using Circular PL Filter emphasizes the blue of the sky.



Not using Circular PL Filter



Using Circular PL Filter suppresses the reflection from the surface of the leaves and the surface of the water.

Close-up Lenses



With Close-up Lens



Close-up Lens 250D/500D/500

The 250D/500D series incorporates double-element achromatic design for maximum optical performance. These screw-in lenses are used to provide a shorter minimum focusing distance with no loss of light. Each lens is optimized for a particular focal length. Manual focus is recommended with these lenses.

Type Available Sizes
Screw-in 500D/500: 52mm, 72mm, 77mm. Optimized for lenses 70 thru 300mm.
250D: 52mm, 58mm. Optimized for lenses 50 thru 135mm.



Drop-in Screw Filter Holder

A holder for screw-type filters, for use with rear-mounted drop-in filters.

Type Available Sizes
Drop-in 48mm, 52mm. Includes clear filter. For super-telephoto lenses. Current IS Super-teles—52mm. Previous super-teles without IS—48mm.



Circular Polarizing Filter PL-CB/PL-C

Polarizing filters enhance picture quality by blocking harmful reflected light. Use it to reduce light reflections from glass and water surfaces or to improve color saturation. Simple to use, these filters polarize light circularly, rather than linearly, so they do not interfere with autofocus or TTL light metering.

DROP-IN — For use with lenses using rear-mounted drop-in filters, this polarizing filter can be rotated from the outside without removing the holder from the lens, enabling precise control.

Type Available Sizes
Screw-in 52mm, 58mm, 67mm, 72mm, 77mm, 82mm
Drop-in 48mm, 52mm. For super-telephoto lenses. Current IS Super-teles—52mm. Previous super-teles without IS—48mm.

Softmat Filters



Without Softmat Filter



With Softmat Filter



Softmat No. 1 & No. 2

Softmat filters mildly soften the focus for flattering portraits and dreamy landscapes. These filters utilize the effect of diffraction, which occurs between light passing through the transparent part and light passing through the coated part. Use Softmat No. 1 filter for a gentle soft focus effect, and Softmat No. 2 for a stronger effect.

Type Available Sizes
Screw-in 52mm, 58mm

Extension Tubes



EF 25 II EF 12 II

Extension Tube EF 25 II & EF 12 II

These close-up accessories are placed between the camera body and lens to enable high-magnification photography. Eight electronic contact points allow communication between the camera and lens to continue as usual. The magnification differs according to the lens, but for standard zoom lenses it is about 0.3x to 0.5x for the EF 12 and 0.7x or more for the EF 25. By using both tubes effectively, the choice of magnifications can be greatly extended. However, for best results, manual focusing is recommended.

Loupes



Loupe 4x and 8x

Designed for viewing 35mm film frames at high magnifications, these loupes use a high-performance lens system that eliminates all aberration and distortion. They offer diopter adjustment of -4 to +1 dpt, and include an eyecup, hood and case.

Type Available Sizes
Drop-in 48mm, 52mm. For super-telephoto lenses. Current IS Super-teles—52mm. Previous super-teles without IS—48mm.

Gelatin Filter Holders



Gelatin Filter Holder System

This convenient holder system allows the use of commercially available square filters without the need for cutting. The holder attaches to the lens through an adapter that fits the filter diameter. A special hood is available for use with the system. Use with 3-inch square type III and 4-inch square type IV gelatin filters. Gelatin filters can be used with most EF lenses.

Gelatin Filter Holder III & IV

Type Available Sizes
Screw-in Holder for 3-inch square (III) or 4-inch (IV) gelatin filters.

Gelatin Filter Holder Hoods III & IV

Type Available Sizes
Screw-in Lens shades which attach to holder can be stacked with telephoto lenses.

Gelatin Filter Holder Adapter III & IV

Type Available Sizes
Screw-in III: 52mm, 58mm, 67mm, 72mm, 77mm.
IV: 58mm, 67mm, 72mm, 77mm.

Drop-in Gelatin Filter Holder II

Up to three gelatin filters can be placed in these holders. To use, insert a cut piece of gelatin film between the holder's filter frame and pressure clip, and screw on to the lens.



Type Available Sizes
Drop-in 48mm, 52mm. For super-telephoto lenses. Current IS Super-teles—52mm. Previous super-teles without IS—48mm.

Extender EF Specifications

| EF Lens Attachment | with Extender EF 1.4x II attached | | | | | with Extender EF 2x II attached | | | | | | |
|--------------------------------|-----------------------------------|---------|---------|------------|-----------------------|---------------------------------|----------------------------|-----------|-----------|------------|-----------------------|------|
| | Apparent Focal Length (mm) | APS-H | APS-C | f-stop (f) | Maximum Magnification | AF | Apparent Focal Length (mm) | APS-H | APS-C | f-stop (f) | Maximum Magnification | AF |
| EF 135mm f/2L USM | 189 | 246 | 302 | 2.5-45 | 0.27 | ○ | 270 | 351 | 432 | 4-64 | 0.38 | ○ |
| EF 180mm f/3.5L Macro USM | 252 | 328 | 403 | 4.5-45 | 1.4 | ○*2 | 360 | 468 | 576 | 6.7-64 | 2.00 | ○ |
| EF 200mm f/2.8L II USM | 280 | 364 | 448 | 2.5-32 | 0.22 | ○ | 400 | 520 | 640 | 5.6-64 | 0.32 | ○ |
| EF 200mm f/2L IS USM | 280 | 364 | 448 | 2.8-45 | 0.18 | ○ | 400 | 520 | 640 | 4-64 | 0.24 | ○*5 |
| EF 300mm f/2.8L IS USM | 420 | 546 | 672 | 4-45 | 0.15 | ○ | 600 | 780 | 960 | 5.6-64 | 0.28 | ○ |
| EF 300mm f/4L IS USM | 420 | 546 | 672 | 5.6-45 | 0.33 | ○ | 600 | 780 | 960 | 8-64 | 0.47 | ○*34 |
| EF 400mm f/2.8L IS USM | 560 | 728 | 896 | 4-45 | 0.22 | ○ | 800 | 1,040 | 1,280 | 5.6-64 | 0.31 | ○ |
| EF 400mm f/4 DO IS USM | 560 | 728 | 896 | 5.6-45 | 0.17 | ○ | 800 | 1,040 | 1,280 | 8-64 | 0.24 | ○*34 |
| EF 400mm f/5.6L USM | 560 | 728 | 896 | 8-45 | 0.18 | ○*3 | 800 | 1,040 | 1,280 | 11-64 | 0.27 | ○ |
| EF 500mm f/4L IS USM | 700 | 910 | 1,120 | 5.6-64 | 0.17 | ○ | 1,000 | 1,300 | 1,600 | 8-90 | 0.27 | ○*34 |
| EF 600mm f/4L IS USM | 840 | 1,092 | 1,344 | 5.6-64 | 0.17 | ○ | 1,200 | 1,560 | 1,920 | 8-90 | 0.27 | ○*34 |
| EF 800mm f/5.6L IS USM | 1,120 | 1,456 | 1,792 | 8-45 | 0.2 | ○*5 | 1,600 | 2,080 | 2,560 | 11-64 | 0.28 | ○*5 |
| EF 1200mm f/5.6L USM | 1,680 | 2,184 | 2,688 | 8-45 | 0.12 | × | 2,400 | 3,120 | 3,840 | 11-64 | 0.27 | × |
| EF 70-200mm f/2.8L IS USM | 98-280 | 127-364 | 157-448 | 4-45 | 0.23 | ○*1 | 140-400 | 182-520 | 224-640 | 5.6-64 | 0.34 | ○*1 |
| EF 70-200mm f/2.8L USM | 98-280 | 127-364 | 157-448 | 4-45 | 0.22 | ○ | 140-400 | 182-520 | 224-640 | 5.6-64 | 0.44 | ○ |
| EF 70-200mm f/4L IS USM / USM | 98-280 | 127-364 | 157-448 | 5.6-45 | 0.29 | ○ | 140-400 | 182-520 | 224-640 | 8-64 | 0.42 | ○*3 |
| EF 100-400mm f/4.5-5.6L IS USM | 140-560 | 182-728 | 224-896 | 6.7-54 | 0.28 | ○*34 | 200-800 | 260-1,120 | 320-1,280 | 9.5-76 | 0.40 | ○*4 |

For Best Results with your Canon EOS Camera Use Original Canon EF Lenses.

Each EOS camera body and each EF lens has its own built-in microcomputer. These microcomputers store a range of special data to ensure the smooth operation of bodies and EF lenses which support two-way digital communications between each part to allow exchange of information. Since the EOS system's market launch in 1987, functions have been added and improved on a continuing basis, such as Optical Image Stabilizer to some lenses, speeding up the AF function, increasing the number of focusing points, and the addition of the Eye Controlled Focus™ Function. As the system's range of functions has evolved, the nature of the basic system of communications between lens and body has evolved as well, ensuring that complete compatibility is maintained. This process of evolution will continue in the future with the addition of new specifications, resulting in still further gains in reliability. Accordingly, in order to realize the maximum performance of the EOS System and thereby achieve the highest possible photographic quality, we recommend that you use Canon EF lenses and Canon brand accessories, since they are designed and manufactured to match the special qualities of your EOS camera.

*1 If the lens is attached to an EOS camera, having multiple focusing points and an Extender is attached to the lens, only the center focusing point will be usable for AF. *2 The auto-focusing range is from 2.6 feet/0.8m to infinity. *3 With the EOS-1Ds Mark III, EOS-1Ds Mark II, EOS-10D Mark III, EOS-10D Mark II, EOS-1D, EOS-1v and EOS-3. AF is possible with the center focusing point only. *4 The Image Stabilizer does not operate with the following cameras: EOS500, 630, 620, 600, RT, 700, 750, 850, EOS-1, A2, A2E, 10s, ELAN, Rebel, Rebel S, Rebel II and Rebel SI. *5 With the EOS-1Ds Mark II, EOS-1Ds, EOS-1D Mark II N, EOS-1D Mark II, EOS-1D, EOS-1D, EOS-1v, EOS-1v HS and EOS-3, AF is possible with the center focusing point only.



SPEEDLITE TECHNOLOGY



Integral to the EOS System, Canon Speedlites are the ideal flash source for EOS SLR cameras. They are technologically advanced to provide perfect exposure and illumination with just about any subject, yet operation is remarkably simple. Whether you're an amateur or an expert, Canon Speedlites make it easy to obtain professional results.

Sophisticated Flash Control Modes

E-TTL—In E-TTL (Evaluative Through-The-Lens) flash exposure control mode, meter readings are taken through the lens, but not off the focal plane. Using a preflash fired after the shutter button has been fully depressed—but before the camera's reflex mirror goes up—E-TTL uses the camera's evaluative metering sensor to compare the ambient light values with the light reflected from the subject by the preflash. The camera then calculates and

stores the flash output required for optimum exposure of the main subject (as identified by the AF point) and the background. E-TTL requires the use of EX-series dedicated Speedlites such as the 580EX II, 430EX II, 270EX, 220EX, MT-24EX, or MR-14EX in combination with a compatible camera.

E-TTL II—Available on Canon's EOS SLR cameras, E-TTL II incorporates distance information from compatible EF lenses (see page 30 for details) for more versatile flash exposure control. E-TTL II minimizes underexposure that can occur with straight reflections by ignoring sensor areas that report abnormally high levels. This feature is useful when shooting a subject with a highly reflective object in the background, or if the subject itself is highly reflective. In addition, because distance information is used in calculating the flash output level, E-TTL II prevents overexposure when photographers lock focus and recompose.

| SLR Compatibility | E-TTL | E-TTL II | A-TTL / TTL |
|----------------------------|-------------------|------------------|--------------------|
| Camera Model | | | |
| EOS-1Ds Mark III | No | Yes [†] | Not Possible |
| EOS-1D Mark III | No | Yes | Not Possible |
| EOS 5D Mark II | No | Yes | Not Possible |
| EOS 5D | No | Yes | Not Possible |
| EOS 50D | No | Yes | Not Possible |
| EOS 40D | No | Yes | Not Possible |
| EOS 30D | No | Yes | Not Possible |
| EOS Rebel T1i / XS / XS | No | Yes | Not Possible |
| EOS Digital Rebel XTi / XT | No | Yes | Not Possible |
| EOS-1v / EOS-3 | Yes | No | 4-point/3-zone |
| EOS ELAN 7NE | Yes | Yes | 4-point/3-zone |
| EOS Rebel T2 / T2 Date | No | Yes | Not Possible |
| EOS Rebel K2 / K2 Date | Yes | No | 4-point/3-zone |
| Speedlite Compatibility | E-TTL / E-TTL II | A-TTL | TTL |
| Speedlite | | | |
| 580EX II | Yes ^{††} | No | Yes ^{†††} |
| 430EX II | Yes ^{††} | No | Yes |
| 270EX | Yes ^{††} | No | No |
| 220EX | Yes ^{††} | No | Yes ^{†††} |
| MR-14EX | Yes ^{††} | No | Yes |
| MT-24EX | Yes ^{††} | No | Yes ^{†††} |

[†] Not Linked to AF point. ^{††} Requires EOS body that supports E-TTL and E-TTL II respectively. ^{†††} Defaults to TTL in all conditions except direct flash in the camera's Program mode.

For example, with the EOS-1D Mark III, the ambient light is first measured using the camera's 63-zone metering when the shutter button is pressed. Next, a preflash is fired and the metering sensor takes readings. The ambient and preflash readings are compared. The metering areas having small differences are selected as the main flash exposure areas. Areas with large discrepancies between ambient and preflash readings are excluded or down-weighted because they are assumed to contain a highly reflective subject, or the subject is not in that part of the frame—an assumption validated by distance information. The algorithm thus avoids chronic underexposure problems in such situations. These readings are weighted, averaged, and compared with the ambient light reading and the main flash output is then set and stored in memory.

The E-TTL II, in effect, captures the subject as a "plane" and not as a "point." As a result, EOS SLR cameras can deliver consistent flash exposures even if the subject contains various colors and levels of reflection. The camera also allows the user to select an averaged metering pattern through custom function settings.

TTL*—TTL (Through-The-Lens) is the standard flash exposure control mode used by the built-in flash units that come with some 35mm EOS cameras. Unlike E-TTL or E-TTL II, TTL reads flash illumination reflected from the film during the exposure. When the camera is set to Program AE mode, TTL flash sets an aperture based on the ambient light level.

Flash Exposure Lock (FE Lock)

FE Lock adds auto exposure lock and spot metering functions when shooting with EX-series Speedlites and E-TTL compatible EOS cameras. The EX-series

Speedlite's preflash fires when the camera's AE Lock button is depressed, storing a spot meter reading of flash and ambient lighting data for up to 16 seconds. This provides enough time to not only recompose the shot, but also alter the ambient light exposure for maximum creative control. FE Lock is extremely useful when you wish to recompose after focus lock or to place the main subject in a part of the frame not covered by one of the focusing points. It can also eliminate potential exposure errors caused by unwanted reflections from surfaces like windows or mirrors.

Adjusting Ambient Exposure in FE Lock**—After preflashing the subject with the FE Lock button, ambient exposure can be adjusted by turning the Quick Control Dial. The ambient exposure level is



Taken with MT-24EX and EOS-1v HS

displayed on the exposure level scale in the viewfinder and on the external LCD panel.

FP Mode***

FP (focal-plane) flash, or High-speed Sync, enables E-TTL and E-TTL II compatible cameras equipped with an EX-series Speedlite to synchronize flash at shutter speeds faster than the camera's normal maximum sync speed. Even in bright daylight, for example, a fast lens can be used at a wide aperture to reduce depth-of-field and emphasize the subject. FP flash can be combined with E-TTL, E-TTL II, or FE Lock, and is available in all AE modes plus Manual.

Flash Exposure Compensation****

This setting adjusts flash output without changing the shutter speed or aperture. It's a particularly effective way to fine-tune the balance between foreground and background exposure for fill flash shots, but it can also be used to compensate for extremely bright or dark tones in the subject.

Second-Curtain Sync

Instead of firing the instant the shutter opens, Second-Curtain Sync fires the flash at the end of the exposure, allowing streaks of light to flow naturally behind a moving subject. This creative flash mode is most effective with slower shutter speeds and subjects with light sources, such as the headlights of a moving car.

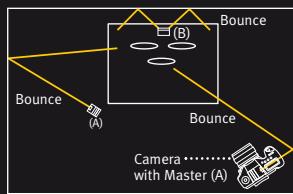
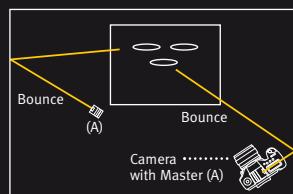
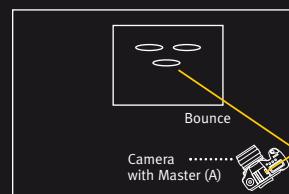
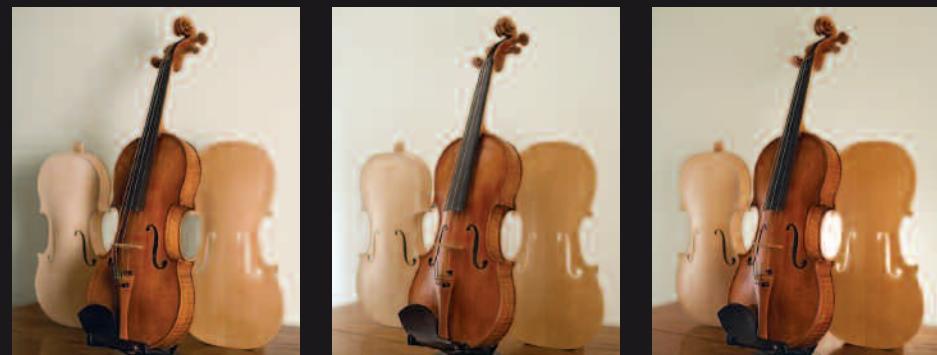
Stroboscopic Flash

Stroboscopic flash is a series of flashes fired in rapid succession during a single exposure. With stroboscopic flash, multiple images of a moving subject appear in the photograph. Using this mode, you can analyze a golf swing or record the shattering of a windowpane. (Available with Speedlite 580EX II, Macro Ring Lite MR-14EX and Macro Twin Lite MT-24EX).

Wireless Flash Photography



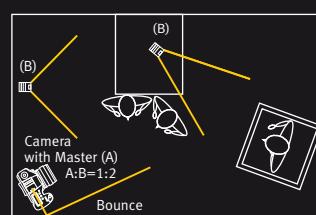
Canon's EX series Speedlites have made multiple-flash photography simple, wireless and automatic. Using either the Speedlite 580EX II or the Speedlite Transmitter ST-E2 as a master unit, wireless signals are transmitted to an unlimited number of Speedlites 580EX II or 430EX II, creating myriad possibilities for lighting, no matter the location.



1. Set up the main flash unit – To prevent the strong shadows a direct flash would produce, the main flash was bounced off a wall near the camera to soften the lighting.

2. Add an auxiliary flash unit – Remaining shadows were weakened by bouncing an auxiliary flash (A) off another wall to hit the subjects from a direction opposite that of the main flash unit.

3. Add another auxiliary flash unit – To improve gradation and contrast, another auxiliary flash unit (B) was set up behind the subjects. Its light was bounced off the back wall to accent key details of the image.



Sample Photo Analysis – Three flash units provided illumination. The light from the master flash unit (A), a Speedlite 580EX II mounted on the camera, was bounced off the wall to soften its intensity before reaching the two violin makers. A slave 580EX II (B) was set far enough away on a desk to be pointed directly at the statue, and another 580EX II (B) was used to light up the overall office. Based on the results displayed on the camera's LCD monitor, the brightness of the master flash unit was halved to achieve natural lighting.

E-TTL/E-TTL II Wireless Autoflash Control

Up to three groups (for main, fill, and background) of slave units can be set up for comprehensive control of flash lighting. The Speedlite slave units can be assigned to group A, B, or C, with output ratio between groups A and B adjustable from 8:1 to 1:1 or 1:1 to 1:8. The output of the group C can be adjusted through flash exposure compensation. You can concentrate on perfect lighting because the E-TTL/E-TTL II autofocus system controls the total flash output to ensure consistently correct exposure. Also, when Speedlite 580EX II is used with any current EOS Digital SLR and most EOS 35mm cameras, you can fire a modeling (preview) flash for a full second at 70Hz by pressing the depth-of-field preview button. Even with multiple Speedlites, the modeling flash fires according to the ratios you have set. E-TTL/E-TTL II wireless autofocus also supports most other Speedlite features, such as FE Lock, FP Flash, Flash Exposure Bracketing/ Compensation, and Stroboscopic Flash. Finally, for macro shooting, the Macro Ring Lite MR-14EX and Macro Twin Lite MT-24EX can be used as master units, as well.

Perfect Flash Illumination

Canon offers a full range of Speedlite flash units compatible with EOS System cameras for a wide variety of applications and photographers' needs. They range from simple, economical flashes to high-power, highly advanced Speedlites for professional use.



Speedlites



Speedlite 580EX II

- Approx. 20% faster recycling time compared to 580EX.
- Superior evenness of exposure, center to corner of frame.
- Higher max. Guide No. at 105mm setting (max. GN 190, feet).
- Auto conversion of flash coverage with compatible EOS Digital SLR cameras.*
- White Balance info communicated instantly to compatible EOS Digital SLR cameras.*
- Full swivel, 180° in either direction.
- AF-assist beam compatible with all AF points on every EOS SLR.
- Dust- and water-resistance to match the EOS-1D Mark III.



Speedlite 430EX II

- Superior build quality, including a metal foot for added strength.
- Approx. 20% faster recycling time, compared to previous 430EX.
- One-touch quick-lock mechanism for easy attaching/detaching flash from camera.
- Full flash control possible on camera menu, with compatible EOS Digital SLR cameras.
- Virtually silent flash recycle.
- Full 180° swivel in either direction.
- Zoom flash head covers range of 24–105mm; maximum guide number 141 ft./43m at ISO 100.



Speedlite 270EX

- Compact, lightweight design – ideal for smaller cameras
- 28mm and 50mm. 2-step Coverage Angle Selection
- Bounce feature for an expanded range of illumination options
- Simple set-up and communication via the camera's rear monitor
- Speedy, near silent recycling 3.9 sec.
- Soft case included



Speedlite 220EX

- Smallest and lightest EOS Speedlite, with full E-TTL compatibility.
- Covers lenses as wide as 28mm (full-frame cameras) or 17mm (APS-C size sensors).
- Hot-shoe lock with a single motion.
- Flash confirmation lamp (after firing).
- Fast recycle time, and Save Energy (SE) feature.



Speedlite Transmitter



Speedlite Transmitter ST-E2

- Dedicated transmitter to control unlimited number of slave flashes.
- For Speedlites 580EX II and 430EX II (also 580EX, 430EX and 420EX).
- Controls slave units up to 33 ft. outdoors and 49.5 ft. indoors.

* Feature compatible with EOS-1Ds Mark III, 1D Mark III, 1Ds Mark II, 1D Mark II n, 1D Mark II, 5D, 50D, 40D, 30D, 20D, 20Da, Rebel T1i, Rebel XSi, Rebel XS, Digital Rebel XTi and Digital Rebel XT only (some earlier models require firmware upgrade).

Macro Lites



Macro Twin Lite MT-24EX

- Attaches to all Canon EF macro lenses (EF 180mm f/3.5L requires Macro Lite Adapter 72C).
- Twin flash heads can be rotated over 80° angle around lens in 5 degree increments.
- Heads can be swiveled or bounced and can be removed from mounting ring for added control.
- Powerful Guide Number of 78 (feet, at ISO 100), full E-TTL control and E-TTL features including FEL, Hi-speed sync, and FEB.



Macro Ring Lite MR-14EX

- Twin-tube ring lite designed for close-up photography with EF Macro lenses; Flash tubes can fire together or independently.
- Compatible with all EOS bodies.
- Supports E-TTL/E-TTL II Wireless Autoflash in conjunction with one or more compatible EX Speedlites.
- Incandescent focusing lamps and two forms of modeling flash permit preview of lighting effects.

EX-series Speedlite Lineup

| | Speedlite 580EX II | Speedlite 430EX II | Speedlite 270EX | Speedlite 220EX | Macro Twin Lite MT-24EX | Macro Ring Lite MR-14EX |
|-----------------------------|---|--|--|---|--|--|
| Dimensions (W x H x D) | 3.0 x 5.4 x 4.6 in. 76 x 137 x 117mm | 2.8 x 4.8 x 4.0 in. 72 x 122 x 101mm | 2.5 x 2.6 x 3.0 in. 64 x 65 x 76.5mm | 2.7 x 3.62 x 2.42 in. 65 x 92 x 61.3mm | Control Unit: 2.9 x 4.9 x 3.8 in. 74 x 125.9 x 97.4mm Flash Unit: 9.3 x 3.5 x 1.9 in. 235 x 90.4 x 49mm | Control Unit: 2.9 x 4.9 x 3.8 in. 74 x 125.9 x 97.4mm Flash Unit: 4.44 x 4.96 x 1.02 in. 112.8 x 126 x 25.6mm |
| Weight (without batteries) | 13.2 oz./375g | 11.3 oz./330g | 5.1 oz./145g | 5.6 oz./160g | 20.64 oz./585g (combined flash & control units) | 15.1 oz./428g (combined flash & control units) |
| Compatibility | All EOS SLR cameras | All EOS SLR cameras | All EOS SLR cameras | All EOS SLR cameras | All EOS SLR cameras | All EOS SLR cameras |
| Max. Guide Number (ISO 100) | 190 ft./58m | 141 ft./43m | 89 ft./27m | 72.2 ft./22m | 79 ft./24m | 45.9 ft./14m |
| Power Source | AA (Alkaline, re-chargeable NiCd, Lithium-ion, Ni-MH) batteries (x4); Compact Battery Pack CP-E4; Transistor Pack E | AA (Alkaline, re-chargeable NiCd, Lithium-ion, Ni-MH) batteries (x4) | AA (Alkaline, re-chargeable NiCd, Lithium-ion, Ni-MH) batteries (x2) | AA (Alkaline, re-chargeable NiCd, Lithium-ion, Ni-MH) batteries (x4); Compact Battery Pack CP-E3; Transistor Pack E | AA (Alkaline, re-chargeable NiCd, Lithium-ion, Ni-MH) batteries (x4); Compact Battery Pack CP-E3; Transistor Pack E | AA (Alkaline, re-chargeable NiCd, Lithium-ion, Ni-MH) batteries (x4); Compact Battery Pack CP-E3; Transistor Pack E |

Speedlite to the Max

Whether adding a battery pack, connecting two or more Speedlite flashes, or creating a complex wireless lighting solution, Canon has flash accessories for almost any photographic situation that are perfect complements to your Speedlite.



Compact Battery Pack CP-E4

This dedicated external power pack is dust/water-resistant and makes the entire flash system dust/water-resistant. The power pack's performance is the same as the Compact Battery Pack CP-E3.



Transistor Pack E

A high-performance battery pack with interchangeable power supplies. Available as Transistor Pack E (six alkaline batteries in Battery Magazine TP) or transistor Pack E Ni-Cd Set (Ni-Cd Pack TP and charger). Both versions includes Connecting Cord ET.



Ni-Cd Pack TP

Additional rechargeable Ni-Cd Pack TP batteries are available separately. They can also be freely interchanged with Battery Magazine TP. The charger TP recharges a Ni-Cd Pack TP in approximately 15 hours.



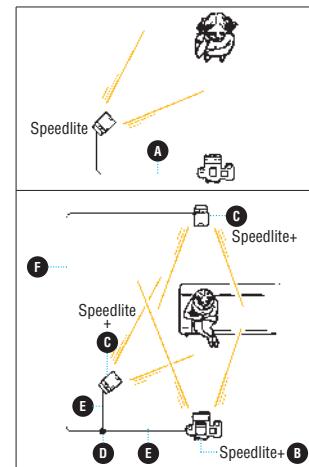
Battery Magazine TP

This magazine holds six commonly available C-size alkaline batteries. Included with Transistor Pack E, it is available separately for instant battery changes during shooting. Can be used in place of the Ni-Cd Pack TP. Connecting Cord ET is also available separately.

Other Speedlite Accessories

| | A | B | C | D | E | F |
|----------------------------|---|---|---|--|--|--|
| Off-Camera Shoe Cord OC-E3 | | | | | | |
| Camera Compatibility | All EOS SLR cameras (Except 630 & RT) | All 35mm and APS SLR cameras (Not compatible with Digital SLR cameras or PowerShot digital cameras) | | | | |
| Description | Dust- and water-resistant 2 ft. (0.6m) TTL cord; retains all on-camera flash functions. Same quick connect as 580EX II. | Placed in the EOS camera's accessory shoe, this adapter controls up to 4 off-camera Speedlites. | For off-camera applications of Speedlite flash units, this adapter will accept one Speedlite and a connecting cord to the camera. | This connector accepts up to 4 connecting cords. | This 2 ft./60cm coiled cord has connections on both ends for TTL Distributor, OA-2, and/or Hot Shoe Adapter 3. | This 9.8 ft./3m straight cord has connections on both ends for TTL Distributor, OA-2, and/or Hot Shoe Adapter 3. |

* These accessories provide TTL or manual flash control, but are not compatible with E-TTL or E-TTL II; no automatic flash with EOS digital SLR cameras.



Recycling Times and Shooting Capacities (580EX II, 430EX II, MR-14EX and MT-24EX)

| | With the 580EX II | | With the 430EX II | | MR-14EX | | MT-24EX | |
|--|-----------------------|------------------------------------|-----------------------|------------------------------------|-----------------------|------------------------------------|-----------------------|------------------------------------|
| | Recycling Time (sec.) | Shooting Capacity (No. of Flashes) | Recycling Time (sec.) | Shooting Capacity (No. of Flashes) | Recycling Time (sec.) | Shooting Capacity (No. of Flashes) | Recycling Time (sec.) | Shooting Capacity (No. of Flashes) |
| Compact Battery Pack CP-E4 (w/ Alkaline Batteries) | 0.1~2.0 | 350~2,450 | 0.1~3.0 | 200~1,400 | 0.1~3 | 450~2,800 | 0.1~3 | 450~2,800 |
| Compact Battery Pack CP-E4 (w/ Ni-MH Batteries) | 0.1~1.5 | 400~2,800 | N/A | N/A | 0.1~5 | 150~1,000 | 0.1~5 | 150~1,000 |
| Transistor Pack E [†] (w/ Alkaline Batteries) | 0.1~5 | 350~2,200 | N/A | N/A | 0.1~4 | 400~2,500 | 0.1~4 | 400~2,500 |
| Transistor Pack E [†] Ni-Cd Set | 0.1~3 | 300~1,800 | N/A | N/A | 0.1~3 | 330~2,000 | 0.1~3 | 330~2,000 |

[†] Discontinued product, for reference only. ^{††} With alkaline batteries only.

Compatibility Chart

| | Compact Battery Pack CP-E4 | Compact Battery Pack CP-E3 [†] | Transistor Pack E [†] |
|-------------------------|----------------------------|---|-----------------------------------|
| Speedlite 580EX II | • | • | • |
| Speedlite 430EX II | • ^{††} | — | — |
| Speedlite 270EX | — | — | — |
| Speedlite 220EX | — | — | — |
| Macro Twin Lite MT-24EX | • | • | • |
| Macro Ring Lite MR-14EX | • | • | • |
| Weight | 5.5 oz./155g | 5.5 oz./155g | 29.8 oz./530g (without batteries) |

Digital Accessories

Designed to help you get the most out of your EOS Digital SLR, Canon has designed a number of different accessories, including power supplies and grips to extend battery life. Other specialized accessories include the Data Verification kit, CompactFlash (CF) cards, cases and much more.



Battery Grips

| | Battery Grip BG-E6 ^t | Battery Grip BG-E5 ^t | Battery Grip BG-E4 ^t | Battery Grip BG-E3 ^t | Battery Grip BG-E2N ^t | Battery Grip BG-E2 ^t |
|----------------------|---|---|--|--|---|---|
| Weight | 11.1 oz./315g (without batteries) | 8.1 oz./230g (without batteries) | 11.3 oz./320g (without batteries) | 8.1 oz./230g (without batteries) | 11.5 oz./325g (without batteries) | 10.2 oz./290g (without batteries) |
| Compatibility | EOS 5D Mark II | EOS Rebel T1i, Rebel XSi, Rebel XS | EOS 5D | EOS Digital Rebel XTi, Digital Rebel XT | EOS 50D, 40D | EOS 30D, 20D, 20Da |
| Functions | Shutter-Release button, AE/FE Lock/ Index/ Reduce button, Main Dial, AF-frame-select button, Aperture/ Exposure compensation button | Shutter-Release button, AE/FE Lock/ Index/ Reduce button, Main Dial, AF-frame-select button, Aperture/ Exposure compensation button | Shutter-Release button, AE/FE Lock/ Index/ Reduce button, Main Dial, AF-frame-select button, Main Dial, AF frame-select button | Shutter-Release button, AE/FE Lock button, Main Dial, AF-frame-select button, Aperture/ Exposure compensation button | Shutter-Release button, AE/FE Lock button, Main Dial, AF frame-select button | Shutter-Release button, AE/FE Lock/ Index/ Reduce button, Main Dial, AF-frame-select button, Main Dial, AF frame-select button |
| Power Source | LP-E6 (x2); AA-size battery (x6); or AC Adapter ACK-E6 | LP-E5 (x2); AA-size battery (x6); or AC Adapter ACK-E5 | BP-511A/511/512/514 (x1 or x2), AA-size batteries (x6), AC Adapter Kit ACK-E2, Compact Power Adapter CA-PS400 plus DC Coupler DR-400 | NB-2LH (x2); AA-size battery (x6); or AC Adapter ACK-700 | BP-511A/511/512/514 (x1 or x2), size-AA-size batteries (x6), or AC Adapter ACK-E2, or Compact Power Adapter CA-PS400 plus DC-Coupler DR-400 | BP-511A/511/512/514 (x1 or x2), size-AA-size batteries (x6), or AC Adapter Kit ACK-E2, or Compact Power Adapter CA-PS400 plus DC-Coupler DR-400 |

^t Accepts optional Hand Strap E1.

Batteries, Chargers and Adapters

| | Ni-MH Pack NP-E3 | Battery Pack BP-511A/BP-512/BP-514 | Ni-MH Pack LP-E6 | Battery Pack LP-E5 | Battery Pack LP-E4 | Battery Pack NB-2LH | Battery Charger LC-E6 |
|----------------------|---|---|--|--|---|---|---|
| Weight | 11.8 oz./325g | 2.5 oz./70g | 2.8 oz./80g | 1.8 oz./50g | 6.3 oz./180g | 1.52 oz./43g | 4.4 oz./125g (without cord) |
| Compatibility | EOS-1Ds Mark II, 1Ds, 1D Mark II n, 1D Mark II, 1D | EOS 5D, 50D, 40D, 30D, 20D, 20Da, 10D, D60, D30, Digital Rebel | EOS 5D Mark II | EOS Rebel T1i, Rebel XSi, Rebel XS | EOS-1Ds Mark III, 1D Mark III | EOS Digital Rebel XTi, Digital Rebel XT | EOS 5D Mark II |
| Description | It has a rated voltage of 12V, a rated capacity of 1,650 mAh. Water and dust resistance. Uses the NC-E2 charger (recharges in about 120 minutes). | High-capacity lithium-ion battery. BP-511A has a different contour and 26% more storage capacity than BP-512. Note: EOS D30, D60 and Battery Grip BG-ED3 cannot use BP-512. | New lithium-ion battery pack, exclusively for the EOS 5D Mark II. At 1800 mAh, it has 1.3x the capacity of the EOS 5D's battery. | Lithium-ion battery pack, exclusively for the Rebel XSi. At 1080 mAh, it has 1.5x the capacity of the Digital XTi's battery. | High-capacity (2300mAh) lithium-ion battery pack with a 720mAh battery cover has a little hole whose orientation can be used to remind you whether the battery has been recharged or not. | Lithium-ion battery pack with a 720mAh battery cover has a little hole whose orientation can be used to remind you whether the battery has been recharged or not. | Charger that's included with EOS 5D Mark II. It charges an LP-E6 battery in 2.5 hours, and can be plugged-in nearly anywhere in the world (100–240V). |

| | Battery Charger LC-E5 | Battery Charger LC-E4 | Battery Charger CG-580 | Battery Charger CB-5L | Battery Charger CB-2LW | DC Coupler DR-400 | AC Adapter Kit ACK-E6 |
|----------------------|--|---|---|---|---|---|---|
| Weight | 2.8 oz./80g | 15.2 oz./431g | 5.6 oz./160g | 3.5 oz./110g (including cord) | 2.3 oz./65.2g | 3.9 oz./123g (including cord) | 3.9 oz./110g (DC Coupler) 6.2 oz./175g (AC Adapter) |
| Compatibility | EOS Rebel T1i, Rebel XSi, Rebel XS | EOS-1Ds Mark III, 1D Mark III | EOS 5D, 50D, 40D, 30D, 20D, 20Da, 10D, D60, D30, Digital Rebel | EOS 5D, 50D, 40D, 30D, 20D, 20Da, 10D, D60, D30, Digital Rebel | EOS Digital Rebel XTi, Digital Rebel XT | EOS 5D, 40D, 30D, 20D, 20Da, 10D, D60, D30 | EOS 5D Mark II |
| Description | Charger that's included with Rebel T1i, Rebel XSi and Rebel XS. It charges an LP-E5 battery in 2 hours, and can be plugged-in nearly anywhere in the world (100–240V). | Two battery packs can be attached. It takes about 120 min. to recharge one battery pack. It plugs directly into AC outlets, and with optional CB-570 cable, into a car cigarette lighter. | Compact and light battery charger for BP-511A/BP-511/BP-512/BP-514 as well as BP-522 and BP-533 for video camcorders. | Compact and light battery charger for BP-511A/BP-511/BP-512/BP-514 as well as BP-522 and BP-533 for video camcorders. | Dedicated battery charger for BP-511A/BP-511/BP-512/BP-514 as well as BP-522 and BP-533 for video camcorders. | Digital Rebel Allows the camera to draw power directly from an AC power source when connected to the CA-PS400 Power Adapter or AC Adapter ACK-E2. | Allows the camera to connect the DC cord to the AC adapter terminal. Kit includes the AC adapter, power cord, and DC coupler. It prevents accidental disconnection. |

| | AC Adapter Kit ACK-E5 | AC Adapter Kit ACK-E4 | AC Adapter Kit ACK-E2 | AC Adapter Kit ACK-DC20 | Compact Power Adapter CA-PS400 | DC Coupler Kit DCK-E1 | Car Battery Charger CBC-E6 | Car Battery Charger CBC-E5 |
|----------------------|---|---|--|---|---|---|--|--|
| Weight | 15.0 oz./425g | 14.1 oz./399g | 3.9 oz./123g (AC-E2 unit only) | 13.6 oz./386g (including cord) | 10.1 oz./287g (excluding AC cord) | 5.3 oz./150g (DC Coupler) 7.2 oz./205g (AC Adapter) | 3.7 oz./105g | 4.9 oz./140g |
| Compatibility | EOS Rebel T1i, EOS Rebel XSi, EOS Rebel XS | EOS-1Ds Mark III, 1D Mark III | EOS 5D, 40D, 30D, 20D, 20Da, 10D, D60, D30, Digital Rebel | EOS Digital Rebel XTi, Digital Rebel XT | EOS 5D, 50D, 40D, 30D, 20D, 20Da, 10D, D60, D30, Digital Rebel | EOS-1Ds Mark II, 1Ds, 1D Mark II n, 1D Mark II, 1D | EOS 5D Mark II | EOS Rebel T1i, EOS Rebel XSi, EOS Rebel XS |
| Description | AC adapter Kit is a perfect companion for the EOS Rebel XSi. With constant power, there's no fear of running out of power in the middle of a shoot. | Allows the camera to connect the DC cord to the AC adapter terminal. Kit includes the AC power source. Kit includes a AC Adapter and DC Coupler DR-400. | Allows the camera to draw power directly from an AC power source. Kit includes Compact Power Adapter CA-PS700, DC Coupler DR-700 and DR20. | It charges two BP-511A/BP-511/BP-512/BP-514 battery packs. When connected to the DR-400, it allows the camera to draw power directly from an AC power source. | Allows the camera to draw power directly from an AC power source. | A car battery charger, dedicated to the EOS 5D Mark II and its new LP-E6 battery pack plugged into a car's cigarette lighter; it charges a battery pack in about 2.5 hours. | A car battery charger, dedicated to the EOS Rebel XSi and its new LP-E5 battery pack plugged into a car's cigarette lighter; it charges a battery pack in about 2 hours. | |

Interface & Video Cable

| | Interface Cable IFC-200D6/IFC-200D4/IFC-500U | Interface Cable IFC-450D6*/IFC-450D4/IFC-450D44 | USB Interface Cable IFC-400PCU*/IFC-200PCU | Mini-HDMI cable HTC-100 | AV Cable AVC-DC400**** | Video Cable VC-100**** | Stereo Video cable STV-250N |
|----------------------|---|--|--|---|--|--|--|
| Length | 6.9 ft. (1.9m)/15.4 ft. (4.7m) | 6.6 ft. (2m) | 14.8 ft. (4.5m) | 3.3 ft./1m | 9.5 ft./2.9m | 4.9 ft./1.5m | 4.8 ft./1.45m |
| Compatibility | USB cable for EOS-1Ds, 1D / EOS-1Ds Mark II, 1Ds, 1D Mark II n, 1D Mark II, 1D | D6: EOS-1Ds, 1D / EOS-1Ds Mark II, 1Ds, 1D Mark II n, 1D Mark II, 1D / D4: EOS-1Ds Mark II, 1D Mark II n, 1D Mark II IEEE 1394 (FireWire®) interface cables used to connect the EOS to a MAC or Windows. | D6: EOS-1Ds, 1D / EOS-1Ds Mark II, 1Ds, 1D Mark II n, 1D Mark II, 1D / D4: EOS-1Ds Mark II, 1D Mark II n, 1D Mark II IEEE 1394 (FireWire®) interface cables used to connect the EOS to a MAC or Windows. | 400 cable: EOS-1Ds, 1D / EOS-1Ds Mark II, 1Ds, 1D Mark II n, 1D Mark II, 1D / D4: EOS-1Ds Mark II, 1D Mark II n, 1D Mark II IEEE 1394 (FireWire®) interface cables used to connect the EOS to a MAC or Windows. | EOS 5D Mark II, EOS 50D, EOS Rebel T1i | EOS Rebel T1i | All EOS Digital SLR cameras except original EOS-1D, EOS-1Ds and EOS Rebel T1i. |
| Description | D6: 6-pin/6-pin, D4: 4-pin/6-pin, D4: 4-pin/4-pin Mark II series cameras have 4-pin FireWire connector. | USB interface cables used to connect the EOS to a MAC or Windows. | Cable to connect the EOS to a MAC or Windows. | Cable to connect the EOS to an HD television or a similar display device. | Enables direct image display from the EOS to an HD television or a similar display device. | Enables direct image display from the EOS to a television or a similar display device. | Cable to connect the EOS Mark II's 3.5mm dia. 4-pole mini-jack to the TV or other appliance's AV jack (video and audio L/R). |

* Comes standard with the EOS-1Ds Mark III, 1D Mark III, 5D Mark II, 50D, 40D, Rebel T1i, Rebel XSi, Rebel XS. ** Comes standard with the EOS-1Ds. *** Comes standard with the EOS-1Ds Mark III, 1D Mark III, 1Ds Mark II, 1D Mark II n, 1D Mark II, 1D / D4: EOS-1Ds Mark II, 1D Mark II n, 1D Mark II, 1D / D4: EOS-1Ds Mark II, 1D Mark II n, 1D Mark II IEEE 1394 (FireWire®) interface cables used to connect the EOS to a MAC or Windows.

| | | Original Data Security Kit OSK-E3/Data Verification Kit DVK-E2 | | CompactFlash (CF) and SD Cards | |
|---|--|--|------------------------------|--------------------------------|---------|
| OSK-E3 (for EOS-1Ds Mark III, 1D Mark III, 1Ds Mark II, 1D Mark II n, 1D Mark II, 1D Mark II, 1D) | DVK-E2 (for EOS-1Ds Mark II, 1Ds, 1D Mark II n, 1D Mark II, 5D, 50D, 40D, 30D, 20D, 10D and all Digital Rebel) | USB reader/writer (writer only with OSK-E3) | Data Verification Kit DVK-E2 | CF card | SD card |
| EOS-1Ds Mark III, EOS-1D Mark III, EOS-1Ds Mark II, 1Ds, 1D Mark II n, 1D Mark II, 5D, 50D, 40D, 30D, 20D, 10D, Rebel T1i or Rebel XSi have not been altered in any manner. Containing a dedicated card (Original Data Security (OS) card with OSK-E3 and Secure Mobile Card with | | | | | |

Wireless

Canon's Wireless File Transmitters enable fast, wireless image transfer from EOS Digital cameras directly to a computer. This amazing productivity tool eliminates the need to stop and upload image files to the computer, allowing photographers to concentrate on shooting photographs.



EOS-1D Mark III with Wireless File Transmitter WFT-E2A

Wireless File Transmitter



Wireless File Transmitter WFT-E4A

This wireless transmitter dedicated to the EOS 5D Mark II. The transmitter is compatible with Wi-Fi Protected Setup to connect easily to a wireless LAN access point and it automatically leads to the security setting for secure image transfer. Sending a batch of photos wirelessly is easy with the WFT-E4A. Images can be stored in selected folders and the entire folder can be transferred at once. It retains the same features as the WFT-E3A including great handling for vertical shooting and wireless transmission (802.11b or g) to Mac or Windows computers up to 492 ft. (150m)* away.

Compatibility
EOS 5D Mark II



Wireless File Transmitter WFT-E3A

This wireless transmitter dedicated to the EOS 50D and 40D camera. Completely integrated design for outstanding handling; includes vertical controls. Wireless transmission (802.11b or g) to Mac or Windows computers. Three separate wireless methods, including wireless remote control of camera from computer. Transmits up to 492 ft. (150m)*, depending on environment and computer set-up; wired Ethernet connection up to 1,000 ft. (330m). Its USB port allows an external hard drive to be directly connected to the camera.

Compatibility
EOS 50D, 40D



Wireless File Transmitter WFT-E2A

Canon's Wireless File Transmitter WFT-E2A allows photographers transmit images from cameras directly to a computer over a wired or wireless local area network (LAN), incorporates a number of significant features into a robust, camera-powered system to make wireless transfer up to 492 ft. (150m)* faster, simpler and less cumbersome than WFT-E1A. The WFT-E2A is smaller and attaches to the side of the camera.

Compatibility
EOS-1Ds Mark II, 1D Mark II, 1D Mark II n, 1D Mark II, 5D, 30D, 20D and 20Da (some earlier models require firmware upgrade).



Wireless File Transmitter WFT-E1A

The WFT-E1A offers several different ways of transmitting image data: it can communicate directly with a local computer outfitted with a wireless LAN computer, or with a direct Ethernet connection. It can also connect to a remote server through a wireless access point connection. Built to withstand the rigors of professional shooting, the WFT-E1A is the perfect complement to an EOS System.

Shown with Extended Range Antenna ERA-E1

Remote Control & Date Backs

Canon accessories are the perfect choice to enhance your EOS System's performance. Whether through recording data or controlling your camera remotely, there's no substitute for Canon's own accessories.



EF 100mm f/2.8 Macro • f/4 • 1/125 sec.

Remote Controller and Switches

| | Wireless Controller LC-5 | Remote Switch RS-80N3 | Timer Remote Controller TC-80N3 | Remote Switch 60T3 | Remote Switch RS-60E3 | Wireless Remote Controller RC-1 | Wireless Remote Controller RC-5 |
|----------------------|--|--|---|---|--|---|--|
| Compatibility | All EOS Digital SLR cameras except EOS Digital Rebel series, 1v Hs, 1v, 3 | All EOS Digital SLR cameras except EOS Digital Rebel series, 1v Hs, 1v, 3 | All EOS Digital SLR cameras except EOS Digital Rebel series, 1v Hs, 1v, 3 | N3-compatible cameras**, 1N RS, 1N, 1, A2/A2E, RT*, 630*, 620*, 650* | EOS Rebel T1i, Rebel XSi, Digital Rebel XTi/XT, Digital Rebel, ELAN 7 series, ELAN II/IIe, Rebel T2, Ti, 2000, G, X, XS, XSN, IX | EOS 5D Mark II, Rebel T1i, Rebel XSi, Digital Rebel XTi/XT, Digital Rebel, ELAN 7 series, ELAN II/IIe, Rebel T2, Date, Ti Date, K2 Date, 10S | EOS 5D Mark II, Rebel T1i, Rebel XSi, Digital Rebel XTi/XT, Digital Rebel, ELAN 7 series, ELAN II/IIe, Rebel T2, Date, Ti Date, K2 Date, IX, 10S |
| Description | <ul style="list-style-type: none"> An extended-range Wireless Controller system designed for EOS cameras with N3 remote control sockets. Provides remote shutter release capability. Max. transmitter to receiver distance of 300 ft./91.5m | <ul style="list-style-type: none"> Remote switch to prevent camera shake for super-telephoto or macro shots and bulb exposures. Works like a Shutter button, enabling halfway or complete pressing. Shutter release lock Connects to N3-type socket. | <ul style="list-style-type: none"> Remote switch with self-timer, interval timer, long-exposure timer, and exposure-count setting feature. Timer set from 1 sec. to 99 hrs., 59 min., 59 sec. Easy operations with new dial. Illuminated LCD panel. N3-type connector. | <ul style="list-style-type: none"> Electromagnetic cable release with a 3-pin terminal. Allows independent control of light metering and shutter release. Cord length: 2 ft./60cm. | <ul style="list-style-type: none"> Compact remote switch replicating all the functions of a shutter release button. Cord length: 2 ft./60cm. | <ul style="list-style-type: none"> Miniature infrared transmitter. Set for either instant shutter release or 2-second delay. Activate mirror lock and bulb shutter functions. Operates as far as 16.4 ft./5m. | <ul style="list-style-type: none"> Compact design. Operates as far as 16 ft./5m from the camera. |

Remote Control Accessories

| | Remote Switch Adapter RA-N3 | Remote Switch Adapter T3 | Cable Release Adapter T3 | Extension Cord ET-1000N3 | Extension Cord 1000T3 |
|----------------------|---|--|--|--|--|
| Compatibility | All EOS Digital SLR cameras except EOS Digital Rebel series, 1v Hs, 1v, 3 | N3-compatible cameras**, EOS 1N RS, 1N, 1, A2/A2E, RT*, 630*, 620*, 650* | N3-compatible cameras**, EOS 1N RS, 1N, 1, A2/A2E, RT*, 630*, 620*, 650* | All EOS Digital SLR cameras except EOS Digital Rebel series, 1v Hs, 1v, 3 | N3-compatible cameras**, EOS 1N RS, 1N, 1, A2/A2E, RT*, 630*, 620*, 650* |
| Description | <ul style="list-style-type: none"> Enables old-model, T3 terminal-equipped accessories to be connected to cameras with the N3-type socket. | <ul style="list-style-type: none"> Enables use of remote control devices with standard 2-pin subminiature jacks with T3-compatible EOS cameras. | <ul style="list-style-type: none"> Allows conventional mechanical cable release to be used with T3-type remote control sockets. | <ul style="list-style-type: none"> Connects compatible EOS cameras with Timer Remote Controller TC-80N3 or Remote Switch RS-80N3. Cord length: 33 ft./10m. | <ul style="list-style-type: none"> Used with any other T3-compatible accessories for extension. Cord length: 33 ft./10m. |

Wireless Technology at Work

Sports/Photojournalism

Wireless File transfer has already found a home with sports photographers and photojournalists, who benefit from the speed and ease of transferring images while they shoot: by transmitting images to a local computer, an assistant manages and transmits image files immediately. This way, the photographer can meet any deadline and can even get feedback on images while shooting. And, since they are transmitting their files, photographers don't have to worry about changing memory cards. Whether capturing the winning serve, or the handshake at the net, the photographer will never miss a minute of the action.



Commercial Studio Photography

Studio photographers can transfer images automatically, either immediately or after the shooting session. In immediate mode, the art director, client, and assistants can be working, even off-site, giving feedback during the session for greater spontaneity and efficiency. In operation, images transfer to an FTP server via wireless or wired LAN. Wirelessly, the antenna supplied allows approx. up to 492 ft. (150m)* with the WFT-E1A, more than sufficient for most studios. In wired mode, a port on the side of the unit connects, with an appropriate Ethernet cable, to a computer or other Ethernet device.



Wedding Photography

Wedding photographers can have one less thing to worry about with the Wireless File Transmitter attached to their camera. Free to roam about the ceremony and reception, photographers can feel confident knowing their images are being transferred to their computer as they shoot. They won't run out of memory cards or lose important shots while offsite downloading images to the computer. They can shoot either vertically or horizontally, transferring their images without worry of getting tangled up in wires. Results can be shared and orders can be taken on the spot, from clients and guests; showing photographs in print or on screen.



* With no obstructions between the transmitting and receiving antennas, and no radio interference. With a large, high-performance antenna attached to the wireless LAN access point.

* EOS RT, 650, 630 and 620 require Grip GR20 with built-in T3 remote socket.

** T3 accessories require Remote Switch Adapter RA-N3 with N3-series cameras.

Shooting Accessories

For more customization, many of Canon's EOS cameras are compatible with a vast choice of eyecups, diopter lenses and more for, greater versatility in a number of shooting situations.



Eyecups, Rubber Frames and Dioptric Adjustment Lenses

| Compatibility | 1Ds Mark II, 1Ds, 1D Mark II N, 1D Mark II, 1D, D2000, 1v HS, 1v, 1N RS, 1N, 1 | EOS-3, A2/A2e, ELAN 7 series, ELAN II/IIe | All EOS SLR cameras except: EOS Mark III series, EOS-3, A2/A2e, ELAN 7 series, ELAN II/IIe | EOS-3, A2/A2e, ELAN 7 series, ELAN II/IIe | 1Ds Mark III, 1D Mark III | EOS Rebel T1i, Rebel XS, Rebel XSi | All EOS SLR cameras (Includes Adapter Ec-C and Ed-C to fit any EOS camera.) | EOS-3, A2/A2e, ELAN 7 series, ELAN II/IIe, IX, IX Lite | |
|----------------------|--|--|--|---|--|------------------------------------|---|--|--|
| Description | These eyecups use specially treated advanced-process glass, which prevents condensation, or fogging. The eyecups are useful in warm, humid and cold weather, when fogging is most likely to occur. Note: EOS-1Ds Mark III and EOS-1D Mark III use Anti-fog Eyepiece Eg only. | These Dioptric Adjustment lenses provide near- and far-sighted users a clear viewfinder image without the use of eyeglasses. Available in versions from +3 to -4 dpt to match many types of eyesight, each Dioptric Adjustment Lens fits into the eyepiece holders of the appropriate EOS model for convenient use and a comfortable fit. Note: EOS-1Ds Mark III and EOS-1D Mark III require Dioptric Adjustment Lens Eg only. | Extends the eyepiece 5/8" (15mm) from the camera body and reduces viewfinder magnification by 30%. Useful for eyeglass wearers and others to keep the tip of the nose from touching the camera body. | Angle Finder C lets users adjust the viewing angle while providing a 2.5x magnification for critical focusing, or a full-screen image (1.25x) that includes exposure data. Provided with built-in dioptric adjustment for variations in eyesight. | This large eyecup keeps out most sunlight and other external light, substantially enhancing viewfinder visibility. It is especially helpful for eyeglass wearers when photographing outdoors. The mount can be rotated for vertical shots. | | | | |

* Used with Dioptric Adjustment Lens E. ** Except Digital Rebel, Rebel T2, Ti and Rebel K2

Focusing Screens Eg Series

| Compatibility | EOS 5D Mark II | Similar to standard Eg-A screen for EOS 5D Mark II. Matte surface for general photography with all lenses. | An all-matte focus screen exclusively for the EOS 5D Mark II with finer microlens structure than the standard screens. Out-of-focus areas show more vividly than with EG-A and EG-D screens. EOS 5D Mark II must be set to Custom Function IV-5-1 for accurate exposure metering. |
|----------------------|----------------|--|---|
| Description | | | |

Focusing Screens Ef Series

| Compatibility | EOS 40D | | |
|----------------------|---|---|--|
| Description | The standard focus screen for EOS 40D. Standard Precision Matte surface, with etched grid lines to assist composition. The EOS 40D's AF points remain fully visible. Focus characteristics suited to most lenses. | Precision Matte surface, with etched grid lines to assist composition. The EOS 40D's AF points remain fully visible. Focus characteristics suited to most lenses. | Exclusively for the EOS 40D, this focus screen is optimized for wide-aperture lenses from f/1.8 to f/2.8. Areas that are slightly out of focus appear more out of focus, making it easier to tell when focus is right-on. Ideal for users who frequently manually-focus in dim light with fast lenses. |

Focusing Screens Ec Series

| Compatibility | All models of EOS-1Ds and EOS-1D, EOS D2000, EOS-1v, 1N, 1N RS, EOS-1 and EOS-3 | | | | | |
|----------------------|--|---|---|---|---|---|
| Description | This matte field screen with micropism focusing spot in the center is used for general photography with all lenses. It achieves best results when using a lens of f/5.6 or faster. | This matte field screen with split-image focusing spot in the center is good for general photography with all lenses. | Standard on the EOS-1D series, EOS-1v HS/EOS-1v, and compatible with the Ec-C III. It achieves easier focusing and good background blur, brighter, less grainy, and better balanced. | This Laser Matte Ec-C IV uses a shaping method improved over the Ec-C III. It achieves easier focusing and spotmetering circle. Manual focus can be checked anywhere on the screen. | This is a matte field screen with sections. Grid lines assist in determining accurate picture composition. It is especially well suited for close-up photography or for copy work using EF macro lenses, it can also be used for general photography with all lenses. | A matte field screen with vertical and horizontal scales marked in milli-meters, this screen is effective for close-up photography and photomicrography. Useful in determining magnification ratios and composition, this screen can be used with all lenses. |
| Compatibility | All models of EOS-1Ds and EOS-1D, EOS D2000, EOS-1v, 1N, 1N RS, EOS-1 and EOS-3 | | | | | |
| Description | This is a matte field screen with a clear center spot containing a double cross-hair reticule. Focusing is possible using the floating image of the central cross hair. This screen is particularly useful for photomicrography and astrophotography. Surrounding matte field can be used with all lenses. | | | | | |
| Compatibility | All models of EOS-1Ds and EOS-1D, EOS D2000, EOS-1v, 1N, 1N RS, EOS-1 and EOS-3 | | | | | |
| Description | This is the standard screen for the EOS-3. The outer oval-shaped area defines the coverage of the 45 AF points; the inner circle is for spot and FEL metering. When shooting, the focus points will be indicated in red LCD markings. Along with the Ec-R screen, it is approximately 1/2 stop brighter than the Laser-Matte series screens. | This matte field screen has a cross-split image in the center, which divides the subject in half both vertically and horizontally for accurate manual focusing. Used for general photography with all lenses, best results are obtained when using a lens of f/5.6 or faster. | This is the standard screen provided with the EOS-1N RS. It compensates for decreased viewfinder brightness due to the low reflection factor of the pellicle mirror. It is about 1/2 stop brighter but otherwise similar to Focusing Screen Ec-CII. It can be used in all EOS-1 series cameras, as well as the EOS-3. | This is the standard screen provided with the EOS-1D Mark II n with finer microlens structure than the standard screens. Out-of-focus areas show more vividly than with the other Ec type screens. Ideal for fast lenses (f/1.8 thru f/2.8 max aperture). | | |

Focusing Screen Sets for 4x5 and Square Formats

| Compatibility | EOS-1Ds/1D Mark III, 1Ds/1D Mark II, 1Ds/1D | |
|----------------------|---|--|
| Description | Ideal for the portrait and wedding photographer, the set "Crop Lines" includes two focus screens—one with 4x5 (or 8x10) crop lines etched on the screen, and a second screen with lines for square composition. All exposure metering can be performed normally in camera, and red focus point illumination remains fully active. The other sets "Black Mask" have an opaque black mask outside the picture area. One screen of the set shows the area for 4x5 (or 8x10) cropping, the other shows the area for square cropping. Partial or spot metering is recommended for these screens. E-TTL II flash exposure will definitely require significant compensation. FEL (Flash Exposure Lock) in conjunction with either partial or spot metering is recommended. 3 types are available for both sets respectively, according to the size of the CMOS sensor and viewfinder optics: for full frame 1Ds series*, 1D series and for 5D. *can also be attached to 35mm EOS-1 series and EOS-3 cameras. | |

Focusing Screens Ee Series

| Compatibility | EOS 5D | | |
|----------------------|--|--|---|
| Description | Replacement standard focus screen exclusively for the EOS 5D. Matte surface for general photography with all lenses. | Similar to standard Ee-A screen for EOS 5D, but with horizontal and vertical lines for precise subject placement or alignment. Overall matte surface gives viewing and focusing very similar to standard Ee-A screen. EOS 5D must be set to Custom Function 00-1 for accurate exposure metering. | An all-matte focus screen for the EOS 5D with finer microlens structure than the standard screens. Out-of-focus areas show more vividly than with Ee-A and Ee-D screens. It works best with lenses from f/1.8 to f/2.8 max aperture, especially for manual focusing. EOS 5D must be set to Custom Function 00-2 for accurate exposure metering. |

*Note: All focusing screens include a special tool for removing original screen and installing new screen. EOS-1Ds, EOS-1D Mark II, EOS-1D, EOS-1v HS and EOS-1v—if using New Laser Matte Focus Screens Ec-N or Ec-R, be sure to set camera's Custom Function C.Fn-0 to "0". EOS-3—if using Laser Matte Ec-A, Ec-B, Ec-C, Ec-D, Ec-I or Ec-L focus screens, be sure to set camera's Custom Function C.Fn-0 to "1". Exposure compensation is required when combining the focusing screen Ec-R with the EOS-1 or EOS-1n, and when combining the focusing screens Ec-A, B, C, D, H, I and L with the EOS-1 RS. Refer to each focusing screen's instructions for detailed information. * EOS-1Ds Mark III, 1D Mark III and 1D Mark II n must be set to appropriate Custom Function*

Power Supplies

To add more power, ergonomics and speed to your EOS SLR body, consider one of Canon's professional quality power boosters and grips. Check out the chart below to find the best match for your EOS SLR.



Power Drive Booster / Battery Pack Chart

| Weight (without batteries) | 17.1 oz./484g | 9.8 oz./280g | 4.1 oz./115g | 5.3 oz./150g |
|-----------------------------------|--|---|--|---|
| Compatibility | EOS-1v HS, 1v, 1N, 1, 3 | EOS-1v HS, 1v, 1N, 1, 3 | Rebel T2/Ti/K2 | ELAN II/IIe |
| Functions | Shutter Release button, AE Lock button, FE Lock/Multi-spot Metering button, Main Dial, focusing point selector | — | Shutter Release button, on/off switch | Shutter Release button, on/off switch |
| Power Source | Ni-MH Battery Pack NP-E2 or Battery Magazine BM-E2 and 8 AA-size Alkaline, Lithium-ion, Ni-MH or Ni-Cd batteries | 2CR5 lithium-ion battery (x1), AA-size (Alkaline, rechargeable Ni-Cd, Ni-MH) batteries (x4) | AA-size (Alkaline, Ni-MH) batteries (x4) | 2CR5 lithium-ion battery (x1), AA-size batteries (x4) |

*Not compatible with AA-size lithium-ion batteries.

Power Drive Booster PB-E2 Accessories

| Weight | 1.8 oz./50g (without batteries) | 10.9 oz./320g | 12.5 oz./354g |
|--------------------|---|--|---|
| Description | Magazine holds eight AA-size alkaline, lithium-ion, Ni-Cd or Ni-MH batteries. (Provided with the PB-E2) | Powerful rechargeable battery pack dedicated to the NP-E3 Battery Pack and the NP-E2 Pack. Two packs can be attached at one time. The rated voltage is 12V. It can be recharged over 500 times. When fully charged, it has enough power for 70 rolls of 36-exposure film at 68°F/20°C. | Charger dedicated to the NP-E3 Battery Pack and the NP-E2 Pack. Two packs can be attached at one time. The discharge feature (taking up to 8.5 hrs) cancels the pack's memory effect. It runs on 100-240V AC, ideal for international travel. |

Grips

| Weight | 9.5 oz./271g | 10.5 oz./300g |
|----------------------|--------------|---------------------|
| Compatibility | Rebel 2000 | Rebel G, X, XS, XSN |

Peripherals

Canon offers a comprehensive line of accessories for the photographer on the go. Canon's camera cases are built specially to protect EOS models, and the bags can accommodate a number of different camera configurations. These are all built to the highest standards, and are the perfect complement to the EOS System.



| Bag | | | | | | |
|----------------------------------|---|--|---|---|----------------------|--|
| Storage Capacity | | | | | | |
| Dimensions | Inside: 13" x 9.5" x 6.25" (W x H x D) | Inside: 10.5" x 7.5" x 7" (W x H x D) | Inside: 14.2" x 8.7" x 8.3" (W x H x D) | Inside: 10.5" x 8.0" x 7.5" (W x H x D) | | |
| Description | To hold cameras, lenses, accessories and a laptop computer. It features a durable, water-repellent nylon extender, pockets and padded dividers. Also Custom Media Case 10DG* to organize memory cards and CDs is included. | This bag has a roomy main compartment for camera body and extra lenses. Front and side pocket hold extra batteries, storage media and others. This functional bag is with non-slip shoulder strap and water-resistant nylon covering to keep your gear safe and sound. | Waterproof, urethane-coated material provides this bag with superlative weather protection and the weather flapped top cover. Fully padded pockets and zippered pouches provide storage spaces with fast access to equipment. | Made with rugged, waterproof material with all the features of the Professional Gadget Bag 1EG. Plus a built-in waist belt that tucks away behind the rear pouch. | | |
| Bag | | | | | | |
| Storage Capacity | | | | | | |
| Dimensions | Size: 9.5" x 7.0" x 6.0" (W x H x D) | Inside: 10" x 14.75" x 5" (W x H x D) | Inside: 9" x 7" x 5.5" (W x H x D) | Inside: 6.5" x 8.7" x 4.72" (W x H x D) | | |
| Description | A lightweight and versatile camera bag designed to hold your important gear. Durable water-repellant nylon shell and padded interior keep all equipment secure. Front and side pockets add storage space and easy access for smaller items. | Perfect for the active photographer. Constructed of rugged water-repellant nylon, well arranged dividers and multiple pockets and pouches mean there is plenty of room for just about anything. | The front zippered pouch features 3 accessory pockets. The rear flat-pouch is perfect for storing things such as plane tickets. There is also a zippered full-length mesh pouch inside the tip cover. | Specially designed to comfortably transport one camera with a standard zoom lens. It features waterproof material, a belt strap and front pouch for small items such as films, memory cards or accessories. | | |
| Case | | | | | | |
| Compatibility[†] | EOS Rebel T1i, EOS Rebel XSi | EOS Digital Rebel XTi, Digital Rebel XT | EOS 30D, 20D, EOS 20Da | EOS ELAN 7 series | EOS Rebel T2, Ti, K2 | |
| Tripod & Monopod | | | | | | |
| Length | 59.33" extended/21.67" folded | | | 63.0" extended/20.5" folded | | |
| Weight | 2.65 lbs. | | | 16 oz. | | |
| Description | This lightweight tripod is designed for easy portability and maximum stability. It features a 3-way pan head for precise control. The 3-section tubular leg construction allows for exceptional stability. The tripod also features a built-in spirit level and a quick release shoe. | | | | | |
| Canon Straps | | | | | | |
| Professional Neck Strap 1 | Rugged, high quality neck strap designed for the most demanding photographers. Features durable non-slip backing, quick-release clips and anti-twist hardware to make carrying and shooting easy. | | | | | |
| Wide Strap EW-100DB III | | | | | | |
| Neck Strap L4 | | | | | | |
| Neck Strap L3 | | | | | | |
| Hand Strap E1 | | | | | | |

*Also available separately. [†]For compatibility with specific lenses see your Canon Authorized Dealer or visit usa.canon.com/eos.



PowerShot G10 DIGITAL CAMERA

Uncompromising Quality.

Canon's G-Series is a legend among advanced amateurs, and this latest successor raises the bar even further. The G10's in-demand specs include 14.7 megapixels and 5x Wide-Angle zoom (35mm equivalent: 28-140mm) for greater flexibility in composing shots and the **DiGIC 4** Image Processor. With loads of creative latitude and compatibility with an array of accessories, the G10 sets the standard for high-end compact digital cameras.

RAW Capture

PowerShot G10 can handle full-scale RAW development utilizing Canon's own Digital Photo Professional (DPP), the same RAW development software used by Canon's EOS models. With RAW capability, photographers have full creative control over the editing process. DPP software also handles all browsing, editing and printing for the camera, as well as display, editing and printing of JPEG images.



Digital Photo Professional



Creative Options

The G10 is compatible with Speedlites to add lighting flexibility, optional tele converter lens and an underwater case to expand your shooting opportunities.



Waterproof Case WP-DC28

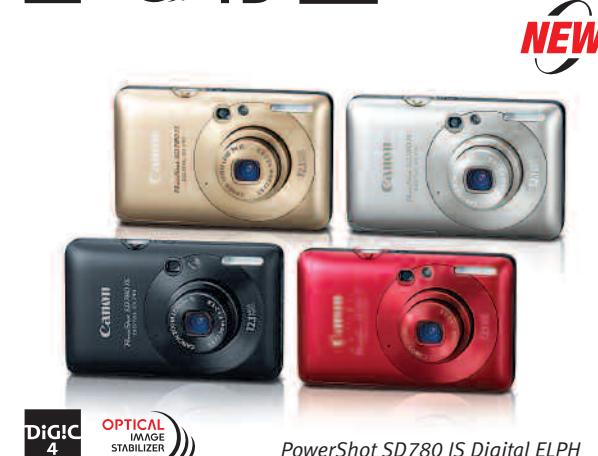
The Perfect Complement to Your EOS System

With shared EOS technologies like Genuine Canon optics, Optical Image Stabilizer, DiGIC Image Processor, and a familiar user interface, it's easy to transition seamlessly between an EOS SLR and a PowerShot compact camera. They're the perfect complement to each other.

PowerShot
DIGITAL CAMERA



PowerShot SX1 IS



PowerShot SD780 IS Digital ELPH



PowerShot A2100 IS

SX Series

Full HD and Stereo Sound Shooting Capability.

The 10.0-megapixel SX1 IS is the very first PowerShot equipped with a CMOS sensor. Superb still images powered by Canon's **DiGIC 4** Image Processor, evolved Face Detection Technology and a wide-angle 20x Optical Zoom are only the beginning. It's also able to shoot images stored as RAW files, shoot Full HD movies at 30 fps and the ability to connect to your HDTV to let you see all the details.

Digital ELPH Series

Slender and Sensational.

The PowerShot SD780 IS Digital ELPH is the slimmest among all ELPH cameras and Canon's boldest commitment to style and performance. Stand out with four amazing colors—Red, Black, Silver and Gold. Stay sharp with 12.1 megapixels and Optical Image Stabilizer. And keep on movin' with the great HD movie feature.

A Series

Elegance Accentuated.

With its solid black, chrome accented design, the unique Canon PowerShot A2100 IS makes a monumental fashion statement. Equipped with intuitive picture-taking features such as 12.1-megapixel resolution, 6x Optical Zoom and Optical Image Stabilizer, this is the camera that makes it easy to create extraordinary, lifelike images alive with realistic hues and dazzling detail.

All PowerShot digital cameras are compatible with SD/SDHC memory cards.



©Parish Kohanim

PHOTO PRINTER TECHNOLOGY

Built upon a foundation of leading-edge technologies, the EOS System puts photographers in touch with their mind's eye, enabling them to capture images of beauty and clarity that had once existed only in their imaginations. Canon's commitment to photographic excellence, however, does not end with image capture. Combining Canon's unparalleled expertise in photography, photocopying and printing technologies, Canon imagePROGRAF and PIXMA photo printers are redefining output quality, performance and convenience. They are the perfect complement to your EOS System with results that are nothing short of stunning!



PIXMA Pro9000 Mark II

imagePROGRAF iPF5100

imagePROGRAF

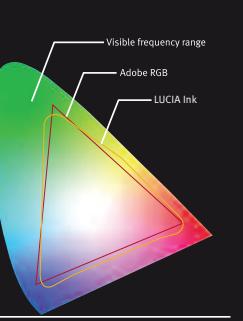
imagePROGRAF Printer Technology

Photographers seeking to produce their own gallery-grade inkjet prints have had limited choices until now. Understanding the demands of professional photographers—especially those who shoot with the EOS System—Canon has responded with the imagePROGRAF series Photo Printers. Both feature impressive new technologies that bring unprecedented quality and performance to large format photo printing. It's never been simpler or more cost-effective to produce gallery-grade prints at home or in the studio.

LUCIA 12-Color Pigment Ink Set

Canon's 12-color LUCIA ink set includes Red, Blue, Green, Photo Cyan, Photo Magenta, Gray, Photo Gray and Matte Black inks in addition to the traditional Cyan, Magenta, Yellow and Black inks. This

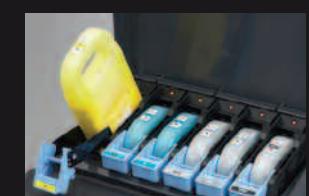
LUCIA ink



Canon LUCIA Ink set vs. Adobe RGB

Canon RC Photogloss L=50

enables the imagePROGRAF printers to reproduce a much wider range of colors with superior saturation and tonal gradation. Moreover, the two Gray



inks ensure black-and-white photo prints of exceptional tonal depth and detail with

substantially reduced metamericism. The LUCIA ink set for imagePROGRAF iPF6100 and iPF5100 feature the same wide color gamut of their predecessors, but with improved features. They offer greater scratch resistance and longevity thanks to an improved polymer coating that allows the ink to bond more efficiently and effectively to the paper. Reformulated Gray and Photo Gray inks combine with processing optimization to ensure better gradation, resulting in even less visible grain than their predecessors, and offer a higher overall print quality with dramatically reduced bronzing.



LUCIA 12-Color Pigment Ink Set

Automatic Color Stability Control System

All imagePROGRAF printers offer a sophisticated, automatic color stability control system for simple, predictable color. With a high-performance multi-sensor installed in the printer, calibration is done easily and quickly (under 10 minutes) with a simple setup from the printer's operation panel. When calibrated, photographers will find amazing consistency among all calibrated printers they might use. Canon's imagePROGRAF color calibration will ensure that the colors photographers saw when they shot, and on their calibrated computer screens will be preserved in print.

PhotoLithographic User-Replaceable Print Heads

Canon's FINE (Full-photolithography Inkjet Nozzle Engineering) print heads ensure accurate and detailed ink delivery, no matter the medium being used for printing. This new, advanced



Multi-nozzle Dual Print Heads

head design uses two print heads—each with 15,360 nozzles—yielding over 30,000 nozzles, which release microscopic ink droplets quickly and precisely. This not only makes extremely high output resolution simple, but also ensures faster, more reliable printing. Photographers no longer need to compromise on print speed to attain high image quality because Canon's superior print head technologies deliver both. The large number of nozzles also substantially increases print head life, so the printer requires less frequent maintenance.

The print heads are user replaceable, can be replaced with minimal downtime and without service calls, saving time and money and increasing productivity.

16-Bit Printing Support

While conventional inkjet printers support 8 bits per-channel and require a conversion from 16 bits somewhere during the workflow, the imagePROGRAF



Printers provide advanced support for high-bit depth files. Software Plug-ins enable high-bit depth images to be printed directly from Digital Photo Professional 2.1. Also included is an export module for printing 16-bit files directly from Adobe® Photoshop®. These features provide the photographer with the first true wide-dynamic-range workflow option from capture to output. Images are reproduced with smoother tonal gradations for greater photorealism. Dynamic-range-related problems, such as posterization and banding, are significantly reduced.

| | |
|---|---|
| Exclusive Canon L-COA Image Processor | High Performance & Integration |
|  | Integrated System & Engine Control |
| High Speed Engine Control | High Fine Image Process |
| High Accuracy & High Speed Control of High Density Head | Integrated System & Engine Control |



Automated Black Ink Cartridge Switching

The ink set includes black and matte black cartridges to allow printing on photo paper and matte paper respectively without switching cartridges or wasting of ink every time. Other printers require the user to perform an inconvenient and wasteful manual operation to flush unused ink and switch cartridges. However, with the Canon imagePROGRAF Printers, both black ink cartridges are loaded and live at all times, so switching over is performed efficiently with a simple push of a button.

Unsurpassed Output Media Selection

The imagePROGRAF Printers support a wide range of paper and specialty output media, such as resin coated photo paper, canvas and fine art



paper. 4-way media feeding, including a roll feed, enable the printers to handle media thicknesses from 0.08 to 0.8 millimeters. Besides media available from other manufacturers, Canon offers

more than 35 different types of compatible paper, with additional paper and media types in the works. Moreover, the supplied Media Configuration Tool enables the user to update the driver, using a periodically published database, to accommodate new Canon media as they become available.

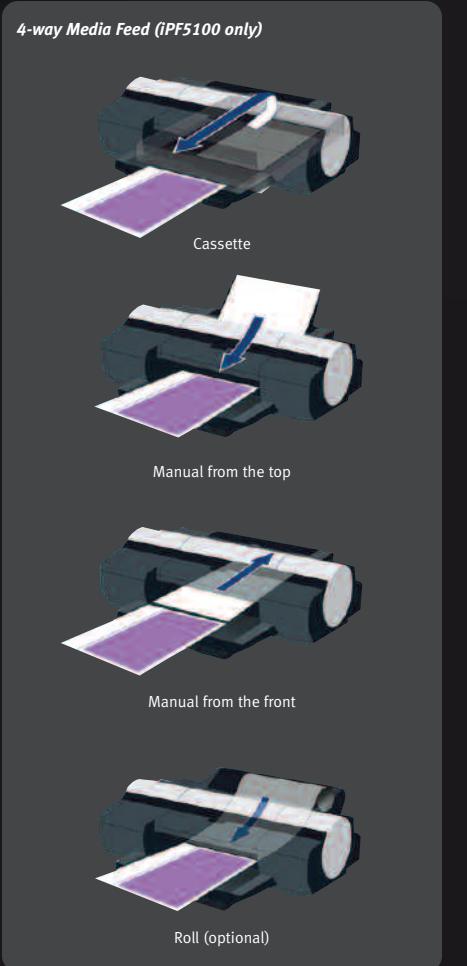
* iPF6200, iPF6100 and iPF5100 handles: 0.08 to 1.5 millimeters

Automatic Head Clog Detection

Canon's sophisticated nozzle clog detection system automatically senses non-firing nozzles and executes a print head cleaning cycle as required. Should a clogged nozzle fail to recover after cleaning, the system automatically compensates by substituting other functioning nozzles. This minimizes print-head-related output failures, reduces paper waste and improves print head durability, saving photographers both time and money.

Advanced Connectivity

The imagePROGRAF Printers are equipped with USB 2.0 Hi-Speed and Ethernet interfaces. An IEEE 1394 Firewire interface is also an available option. The printers also feature excellent multi-platform support, enabling seamless integration with a wide variety of hardware and workflow configurations.



PIXMA Printer Technology

Canon's PIXMA photo printers bring life to images taken with EOS Digital SLR cameras. With the introduction of the PIXMA Pro9500 Mark II and Pro9000 Mark II, Canon has entered the realm of fine art printing while remaining true to the Canon quality and speed photographers everywhere know and trust.

FINE Print Head Technology

Canon's high-precision FINE (Full-photolithography Inkjet Nozzle Engineering) print heads each have thousands of nozzles designed to release microscopic ink droplets as small as 2-picoliters (PIXMA Pro9000 Mark II only) in a single pass, resulting in fast, high-resolution printing. Capable of plotting thousands of ink droplets each second, the high-density nozzle pitch produces sharper detail and less grain. Canon's print heads are engineered using a photo-lithographic process that produces incredibly high-precision output and equally incredible prints.

10-Color Pigment Ink System

Featuring the same LUCIA pigment ink found in the imagePROGRAF printers, the PIXMA Pro9500 Mark II's 10-color pigment ink set produces professional quality, archival prints. The gray, black and matte black ink produce monochrome photographs of unrivaled quality on fine art and glossy paper. Gray ink reduces grain, banding and metamerism and virtually eliminates color shifts. Unlike black ink that increases contrast, matte black ink increases black density on fine art paper while maintaining detail in shadows. With 10 individual ink tanks, users can replace a single color, reducing waste and saving money. Since the Pro9500 Mark II's ink is less sensitive to light and environmental factors, prints have incredibly smooth gradations and are archival.

Consistent Ink Ejection System

To enable smooth prints, all of the ink below the cartridge's heater is expelled by the generated bubble, eliminating the need to break the ink away. The ejection volume is therefore not affected by differences in ink temperature, so ink droplets of a prescribed volume are ejected consistently.



The ChromaLife100 System

The PIXMA Pro9000 Mark II is outfitted with an 8-color dye-based ink system. With the addition of red and green inks, red saturation is increased by approximately 60% and green saturation is increased by approximately 30%. The PIXMA Pro9000 Mark II uses ChromaLife100 ChromaLife100 Ink System



ink for improved image longevity. Photos have a 100-year print life when kept in albums, and when these inks are combined with Canon's genuine photo media, prints will withstand 30-year light fastness and 10-year gas fastness*. This advantage is achieved without compromising print quality or speed.

Advanced Paper Handling

The PIXMA Pro9500 Mark II/9000 Mark II features two paper paths: a standard top loader and a manual front loader for increased versatility and convenience. The front loader can accept thick, fine art media, creating a straight paper path that prevents the media from bending while printing.

Improved Camera to Printer Connectivity

When shooting with selected EOS digital SLR cameras and printing with the PIXMA Pro9500 Mark II/Pro9000 Mark II, photographers can take advantage of improved advanced camera direct capabilities. Photographers can use print effects to finely tune images and can arrange images in a variety of useful layouts—all on their cameras. Ultimately, this level of connectivity enables photographers

to print directly from their cameras with the exact color tones and saturation they specify.

Easy-PhotoPrint Pro Software

Canon's Easy-PhotoPrint Pro (EPP Pro) software plug-in for Digital Photo Professional (Ver. 2.1 or higher), Adobe® Photoshop® CS/CS2/CS3/CS4



and Adobe® Photoshop® Elements® 6 provides an easier photo printing experience. EPP Pro has layout options such as pattern prints, contact prints and prints with shooting information. It also allows for color adjustments, including ICC Profile, Linear Tone, Photo Color, monotone printing and grayscale printing, and with advanced color management, all settings can be saved. The PIXMA Pro9500 Mark II and Pro9000 Mark II printers incorporate the Ambient Light Correction functionality that ensures the quality of a print image viewed in a working environment as well as in a viewing environment where the image is exhibited.

PictBridge

Shoot digital, print direct. It's a fast and easy way to print pictures on the spot without a computer. Just connect any PictBridge-compatible printer to a digital camera and print.

- 1. Connect** – Connect your EOS digital camera directly to a PictBridge-compatible photo printer.
- 2. Select** – Choose the image, print size and style from the camera's LCD menu screen.
- 3. Print** – Press the print function from the menu and you'll have photo lab-quality prints in minutes.

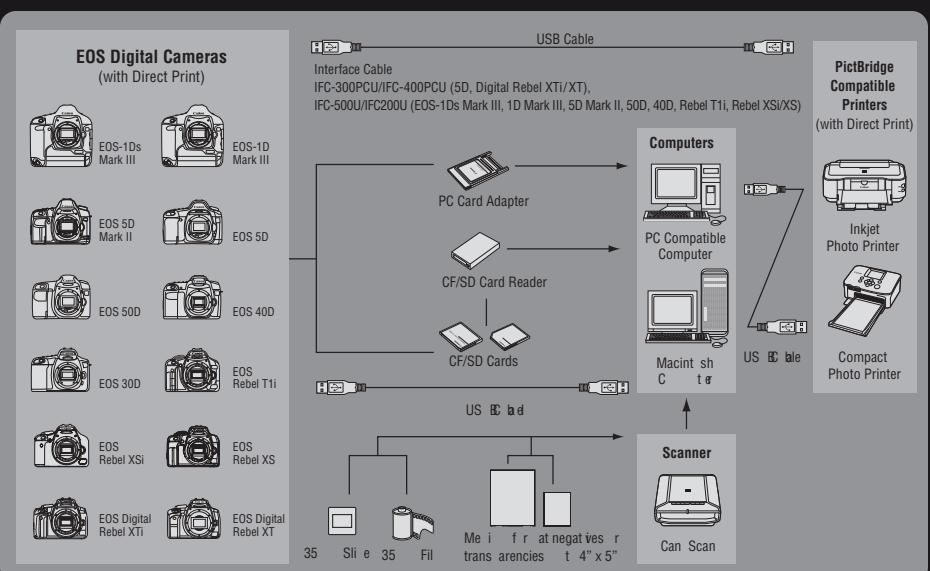


Photo Printing Redefined

Canon photo printers deliver professional, lab-quality prints of images taken by EOS digital cameras with convenience and speed. Augmented by new ink sets and technology that improve the quality of color and black-and-white prints, Canon's new imagePROGRAF and PIXMA photo printers have redefined professional photo output.



imagePROGRAF iPF6200 / iPF6100

Featuring Improved LUCIA Ink Set for Long-Lasting Photos.

The iPF6200/iPF6100 features a 24-inch wide paper feed. A new, refined LUCIA Pigment based inkset offers improved scratch resistance and longevity thanks to an improved polymer coating that allows the ink to bond more efficiently and effectively to the paper. The Printer operation is easy to set up from the operation panel. FINE print head technology supports stable ink firing, printing speeds, accurate color adjustments and quality—beautiful and smooth color gradations. The iPF6200, only, has an internal 80GB hard disk.

NEW



PIXMA Pro 9000 Mark II

Professional Quality Photos for Big Ideas.

Capable of quickly printing lab-quality prints up to 13" x 19", Canon's PIXMA Pro9000 Mark II raises the bar thanks to its combination of speed and versatility. Its FINE print head generates a maximum resolution of 4800 x 2400 dpi and ChromaLife100 dye-based inks create long lasting, beautiful photos. Canon's Easy-PhotoPrint Pro software, including plug-ins for Adobe® Photoshop® CS/CS2/CS3/CS4, Digital Photo Professional Ver2.1, and newly included Adobe® Photoshop® Elements® 6 provides a superior photo printing experience.



imagePROGRAF iPF5100

Superb Color Reproduction with Canon's LUCIA 12-Color Pigment Ink Set.

With Canon's imagePROGRAF iPF5100, no-compromise large-format, fine art printing has never been easier. Canon's exclusive LUCIA 12-color pigment ink set yields a tremendous range of colors and grays. For smooth, detailed color and black and white images, no matter the media. Canon's FINE photo-lithographic heads ensure accurate plotting of even the finest details thanks to over 30,000 nozzles. Matte Black ink and Black ink cartridges are both loaded in the printer at the same time, enabling automatic switching without wasting time or ink.

NEW



PIXMA Pro 9500 Mark II

LUCIA 10-Color Pigment Ink Set Creates Rich Color Photos.

For the highest quality color and black and white photographs, up to 13" x 19", one needs to look no further than the PIXMA Pro9500 Mark II. With the LUCIA 10-color pigment ink system, there's no other printer out there that can print both stunning color and smooth black-and-white photographs like the Pro9500 Mark II. The inclusion of gray, matte and photo black pigment tanks, combined with 3 pl droplets ensure the smoothest gradations possible and the results are prints that will astound.



PIXMA MP980

Ultimate Wireless Photo All in One Printer.

Six individual ink tanks including gray ink and a ChromaLife100+ system for long-lasting quality deliver professional-quality prints at resolutions up to 9600 X 2400 dpi. The 4800 dpi high-resolution scanner with White LED handles both documents and film and eliminates warm-up time.



PIXMA iP100

High Quality and Portable.

Up to 9600 x 2400 color dpi with microscopic droplets as small as 1 picoliter, 4" x 6" photo as fast as in 50 seconds, and your photo can be enhanced with Auto Image Fix. The PIXMA iP100 Mobile Printer is also capable of printing wirelessly via optional IrDA or Bluetooth.



usa.canon.com/dlc

White Papers

EOS Digital Lineup

Educational Events Calendar

Shooting Tips & Techniques

Explorers of Light/PrintMasters Gallery

Expand Your Knowledge.

For in-depth product information, useful tutorials, and world-class examples of Canon photography, there is nothing better than the Canon Digital Learning Center (CDLC). The CDLC is a completely free online resource full of educational material created by photographers, for photographers.

Our site content is dynamic and frequently updated: Browse learning modules on EOS Digital SLR cameras and large format printers; read through our extensive collection of Tips and Techniques to make the most of your EOS System; or take an interactive tutorial session on how to use Canon Digital Photo Professional software. You can also visit our Explorers of Light and PrintMaster Gallery, where renowned photographers from every field teach and inspire with stunning images (created on Canon equipment).

Whether you're a beginner or a veteran professional, a devoted Canon shooter or simply a curious photographer: Anyone passionate about the art of photography will find what they're looking for right here.

usa.canon.com/dlc

All images and effects simulated.
Not responsible for typographical errors.
Availability and specifications subject to change without notice.
Canon, CanoScan, DIGIC, Digital ELPH, EOS, EOS Rebel, LUCIA, PIXMA, PowerShot, SELPHY and imagePROGRAF are registered trademarks of Canon Inc. in the United States, and may also be registered trademarks or trademarks in other countries.
IMAGEANYWARE is a trademark of Canon.
All other products and brand names are registered trademarks, trademarks or service marks of their respective owners.
HDMI, the HDMI logo and High-Definition Multimedia Interface are registered trademarks or trademarks of HDMI Licensing, LLC in the United States and/or other countries.
All other products and brands are registered trademarks, trademarks or service marks of their respective owners in the United States and/or other countries.

0132W342 04/09
©2009 CANON U.S.A., INC.
PRINTED IN U.S.A.

Canon
*image*ANYWARE

1-800-OK-CANON
usa.canon.com/eos

Canon U.S.A., Inc.
One Canon Plaza
Lake Success, NY 11042 U.S.A.

Canon Canada, Inc.
6390 Dixie Road
Mississauga, Ontario L5T 1P7 Canada

Canon Latin America, Inc.
703 Waterford Way, Suite 400
Miami, FL 33126 U.S.A.

Canon Mexicana, S. de R.L. de C.V.
Blvd. Manuel Ávila Camacho No. 138, Piso 17
Col. Lomas de Chapultepec
C.P. 11000 México, D.F. México